CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MARCH 6 1954



a NEW cough sedative for adults + children, containing

PHOLCODINE

CONCERNING PHOLCODINE

- I Pholcodine is the approved name for Morpholinylethylmorphine.
- 2 The properties of Pholcodine are: Less toxic than Codeine.

Higher anti-tussive factor than Codeine.

Less constipating than Morphine or Codeine.

3 Pholcodine is manufactured by Allen & Hanburys Ltd.

RESENTATION OF ETHNINE
ENSING PACK of 80 fluid ounces

And in bottles of 4 fluid ounces.

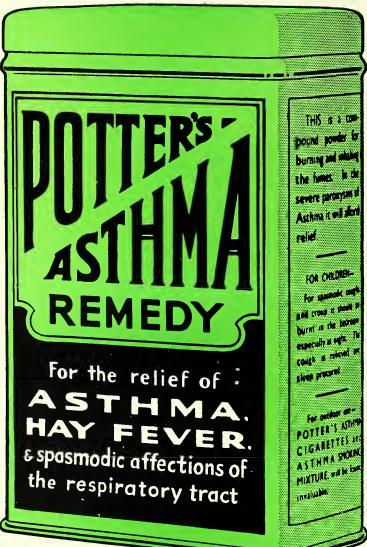
3/- EXEMPT PURCHASE TAX



ALTERNATION AND ARREST AND ADDRESS AND ALL







The renowned method of relieving attacks of Asthma, Hay Fever, Whooping Cough or Bronchitis. Every tin gives simple directions and contains special Dispenser.

I doz. tins of Potter's Asthma Remedy are displayed in this coloured container Retail 2/11 a tin Trade 22/- a doz. (Plus Purchase Tax, 5/6 a doz.)



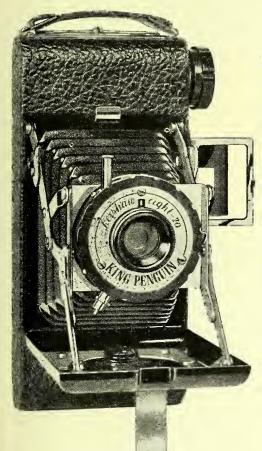
Orders through Wholesalers only, please!

* Regular National-scale Advertising continues to support this Potter's line POTTER & CLARKE LIMITED

BARKING · ESSEX

Telephone: RIPpleway 3041

Sell value plus*



* these optional extras

add to its versatility

Portrait attachment for close-ups

* Lens filter for cloud effects, etc.

Smart carrying case for Camera

So many 'expensive equipment' features make the popular-priced Kershaw King Penguin the finest folding camera value on the market today.

Synchronised for flash

Shutter; instantaneous, and bulb for longer exposures. Smooth action release.

Fully self-erecting

Press the catch and the camera is fully open, ready for action.

High-quality Kershaw Lens

Two self-positioning apertures — F/11 and F/16.

Sports-type viewfinder

Instant clear pictures with eye level, direct-vision viewfinder.

Tripod Fitting

British and Continental baseboard bush for tripod and flash-gun attachment.

Ultra-smart appearance

The body is covered in richly grained black leatherette.



King Penguin

 $3\frac{1}{4}$ " x $2\frac{1}{4}$ " folding camera

only £4.19.10d (inc. P.T.)

The Kershaw King Penguin is the finest camera in its class. Write today for sales literature and colourful display material.

protection and easy portability Write t

G. B. EQUIPMENTS LTD.

Photographic and Optical Division

Dept. CD/3/54, Mortimer House, 37-41 Mortimer St., London, W.I. Museum 5432

A Member of the British Optical and Precision Engineers' Group
Within the J. Arthur Rank Organisation





The manufacturers of

DETTOL submit

the following facts to your attention

Wide mention in medical literature has made Dettol a text-book antiseptic. Wide clinical use has attested the efficiency of Dettol in literally millions of cases which range from minor accident to major operation.

EFFICIENCY

Dettol is an efficient antiseptic which, moreover, retains a high degree of efficiency in the presence of organic matter.

TOLERATION

Dettol is well tolerated on the skin and tissues in high concentrations. Moreover, its non-toxicity offers a high degree of safety to doctor, nurse and patient.

STRENGTH

The fact that Dettol is well tolerated by the tissues permits dilutions to be recommended for clinical purposes which provide a margin of safety even when a reasonable amount of organic material is present.

ACTIVITY

Dettol is active against both

Gram-positive and Gram-negative micro-organisms. Under standard conditions of test a dilution of I in 200 kills Staph. aureus in IO minutes; a I in 500 dilution kills Strept. pyogenes in IO minutes.

COMPATIBILITY

Dettol is not incompatible with soap, traces of which need not be removed before application.

PLEASANTNESS

Dettol is non-poisonous, safe, pleasant and economical in use. It has an agreeable smell.

DATA

Bacteriological data and the literature of Dettol are available on request. Dettol is packed in 2 and 5 gallon, Purchase-Tax-free Dispensing containers.

PHARMACEUTICALS DRUGS FINE CHEMICALS ANTIBIOTICS QUININE The reliable Antimalarial

QUINIDINE

R. W. GREEFF & CO., LTD.

HEAD OFFICE:

12, FINSBURY CIRCUS, LONDON, E.C.2.

Phone: LONDON WALL 5241 (8 lines) Grams: GREEFF, AVE, LONDON

THE ROYAL EXCHANGE, MANCHESTER, 2 Phone: Blackfriars 9407-8

also

R. W. GREEFF & CO., INC., 10, ROCKEFELLER PLAZA, NEW YORK

S.D. 5087

(Reg. Design No. 869649)

Address



ESÕBAN OINTMENT

For allergic and industrial dermatoses

Esoban ointment consists of the essential unsaturated fatty acids which promote healthy skin metabolism. It is readily absorbed, self-sterilizing and is an ideal ointment base compatible with the usual medicaments prescribed in Dermatology.

Supplied in 2 oz. jars at 3/6d. 12 oz. jars at 14/-(including P. Tax)

Trade discount 33½%; from all C. F. Wholesalers A product of

SOUTHON LABORATORIES LTD. LONDON, S.W.15

Southon

and at

136 RENFIELD STREET

GLASGOW



DISPLAY FITTINGS) LTD

STREET · GRAY'S INN ROAD · LONDON · E·C·I

(C & D 6/3/S4)

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Popular choice for vitamin supplementation

Even in a community in which diet is adequate there are times when supplementation is desirable. At such times Multivite's convenient presentation of vitamins A, B₁, C & D₂ in high concentration and its pleasant flavour make a strong appeal.

Bottle of 50 pellets

DRUG HOUSES LTD. LONDON

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From the Carnegie Range of Fine Chemicals

BRUCINE AND SALTS

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'
Telephone: WELWYN GARDEN 5001
(6 lines)



These are some of the renowned organisations of widely varying nature who saw the force of our argument when we pointed out how much of their valuable storage space was being lost in unnecessary gangways:—

Barclays Bank, W. T. Bush, Daily Express,
de Havilland, E.M.I., Hercules Cycles, I.C.I.,
Johnson & Johnson, Lloyds Bank, London Hospital,
London Transport, Marks & Spencer,
May & Baker, Menley & James, Parke Davis,
Phoenix Assurance, Shell Mex,
Standard Motors, W. D. & H. O. Wills, Geo. Wimpey

By converting their static storage to ROLSTORE MOBILE UNIT STORAGE we vastly increased their storage capacity without adding to their floor area; or alternatively we released much costly space taken up by storage for other more productive purposes.

We can do the same for you

Take the first step now:

Write or phone to:—

ACROW (ENGINEERS) LTD.

Rolstore Division

SOUTH WHARF, PADDINGTON, LONDON, W.2: AMBassador 3456 (20 lines)





DEHYDRATED COSMETIC CREAMS

The NEW development in cosmetic science

Packets of dehydrated "CORONAL" Creams in granule form to make 2-ozs. of Cream by the sole addition of water, at less than half the price of the filled jars, contain all of the purest ingredients of the highest quality Creams.

" COR	ONAL"	Filled Jar	Refill Pkt.
"	Cleansing Cream	6/-	2/9
,,	Foundation Cream	6/6	3/-
,,	Skin Cream	6/6	3/-
,,	Night Cream	7/6	3/6
,,	Astringent Cream	8/6	4/-
	Ample discounts and	sales aids.	

" CONSU	JL "	exclus Perfum	ive "E ne		NCE ''
,,	Skin	Tonic	• •	5/6	,,
,,,	Face	Powder	· (4 tint	ts) 9/6	box

IDEAL HOME EXHIBITION STAND NO.

BRITISH INDUSTRIES FAIR STAND No.

Full particulars from:

CONTINENTAL TRADE CONSULTANTS LTD.

406 Euston Road, Regents Park, London, N.W.I

Telephone: EUSton 8301

SELLING AGENCY

NUMOL LIMITED OF NEWCASTLE-ON-TYNE 4

Have available a selling and Manufacturing and Distributing organisation for any business selling to Chemists.

Any business interested in our organisation should communicate with the Secretary:-Numol Ltd., 80, Elswick Rd., Newcastle-on-Tyne 4

Our Directors are available in London every week and at any time within three hours of your telephone call.

Important Announcement to Retailers!

Heath & Heather

NOW OFFER
The FINEST and PUREST

CHLOROPHYLL

DEODORANT TABLETS



PRICE per tube of 35 TABLETS 1/7

TRADE PRICE

II/- per doz.(Plus Purchase Tax at 25%)

Display outer and showcard sent with each order.

This line is backed by a nation-wide distribution of literature describing our well-known products, plus the reputation of England's leading Herb specialists.

Customers old and new will soon ask you for HEATH & HEATHER'S CHLOROPHYLL DEODORANT No. 200. Don't disappoint them — have your stocks ready!

Available for immediate delivery direct from:

EATH & HEATHER LTD., ST. ALBANS, HERTS.

TRIUMPHANT MARCH FOR NEW MAGLEANS TABLETS

MARCH brings a new peak in the New Macleans Tablets advertising campaign! Ever since the introduction of this remarkable new treatment last year, the campaign has been heavy, really heavy!

But the March advertising for New Macleans Tablets is the heaviest ever for any indigestion remedy! Even bigger spaces in 104 leading newspapers!

LOOK AT THIS LIST!

NATIONAL DAILIES

DAILY MIRROR
DAILY MAIL
DAILY EXPRESS
DAILY HERALD
NEWS CHRONICLE
DAILY SKETCH

NATIONAL SUNDAYS

NEWS OF THE WORLD SUNDAY PICTORIAL THE PEOPLE SUNDAY DISPATCH SUNDAY GRAPHIC EMPIRE NEWS SUNDAY CHRONICLE REYNOLDS NEWS

LONDON EVENINGS

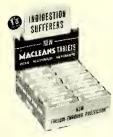
STAR EVENING STANDARD

and 88
Provincial Newspapers

THE SAME IMPRESSIVE LIST-NOW WITH EVEN BIGGER SPACES!





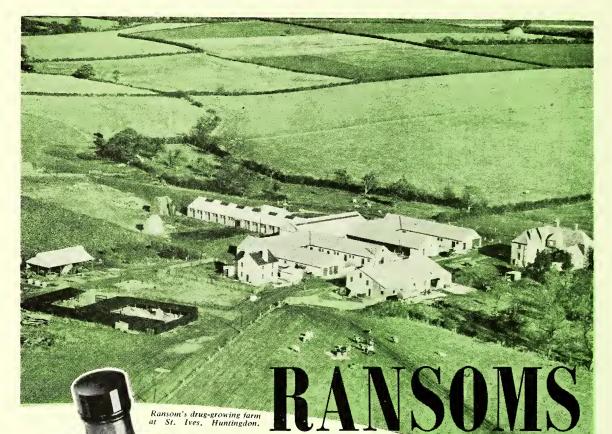


TIE IN WITH THIS GREAT EFFORT!

Display New Macleans Tablets in March, and reap the full benefit of this unparalleled advertising support!

Use these sell-out display units. Keep them full and keep them forward!

MACLEANS LTD., GREAT WEST ROAD, BRENTFORD, MIDDLESEX



GROWERS AND MANUFACTURERS FOR MORE THAN 100 YEARS

Steady expansion has been the keynote of the House of Ransom since it was founded 107 years ago. More and more space is now being devoted on Ransom's 500-acre farm at St. Ives, Huntingdon, to the cultivation of medicinal plants and to experimental grounds for research purposes to meet the ever-growing demand for Ransom's vegetable drugs and galenicals. As Ransoms are the original manufacturers of chlorophyll in Great Britain and have recently considerably extended their chlorophyll production plant, they are able to offer a wide range of highly concentrated chlorophylls for all industrial purposes.

Ransom's Oil of Peppermint is distilled from specially cultivated plants on the Company's farm at St. Ives.

Established 1846



WILLIAM RANSOM & SON LTD.

Hitchin Hertfordshire England

SANMEX CO., LIMIT
PHARMACEUTICAL DEPARTMENT

M. W. HARDY & CO. (OVERSEAS) LTD

Pinners Hall · Great Winchester St. · London · E.C.2

WORLD EXPORT AGENTS

for

PENICILLIN PREPARATIONS

MANUFACTURED BY



THE RANGE INCLUDES

LOZENGES · TABLETS · OINTMENTS · Etc. Aids to Dispensing Outfits of Cream and Drops



SANMEX CHEMICAL WORKS RUTHERGLEN SCOTLAND

Increased Demand



These appealing advertisements will be appearing during April, May, June and July in 'Housewife', 'Good Housekeeping and Family Doctor. Order NOW to meet the increased demand, BAUMOL Soap has been recommended by members of the medical and pharmaceutical professions for the protection of sensitive skins since 1892.

DUNCAN, FLOCKHAR'T & CO. LTD.,

EDINBURGH. 104-8, Holyrood Road, 8

BISMUTH SUBGALLATE

Applied externally in cases of

DERMATITIS ECZEMA WOUNDS **BURNS**

ensures

Protection from trauma Prevention of infection Rapid healing

Recent investigations have shown conclusively that in the treatment of chronic eczema and dermatitis Bismuth subgallate has succeeded where other remedies have failed.

Full data and free samples from

MINING & CHEMICAL PRODUCTS, LTD., Bismuth Research Dept., 86 STRAND, LONDON, W.C.2



TIME'S GETTING SHORT! ORDER YOUR

FLIT BONUS PARCELS NOW!

REGD. TRADEMARK

Look at the big profits you'll make on the fastest-selling insecticides

58%
PROFIT
on every £10 order
costs £9

53%
PROFIT
on every £8 order
costs £7-8-0

PROFIT
on every £5 order
costs £4-15-0

Choose from these big offers!

On mixed orders for FLIT Liquid Insecticide, FLIT Sprayers, FLIT Powder and FLIT Flycards, you get these Special Discounts—

10% ON ALL ORDERS TO LIST VALUE OF £10 AND OVER

 $7\frac{1}{2}\%$ on all orders to list value of 48 and over

5% ON ALL ORDERS TO LIST VALUE OF £5 AND OVER

NOTE: FLIT Flycards may now be included in Bonus Parcels in Minimum quantities of 6-dozen lots. All list prices and prices to public remain unchanged.

FLIT AEROSOLS ONLY 5% on all orders for 4 doz. 4 oz. size, or equivalent assortment of 4 oz., 6 oz. and 12 oz. sizes. $2\frac{1}{2}\%$ on all orders for 2 doz.

SPECIAL BONUS ON

 $2\frac{1}{2}$ O on all orders for 2 doz. 4 oz. size, or equivalent assortment of 4 oz., 6 oz. and 12 oz. sizes.

YOU STOCK FLIT-WE SELL IT ! WE FOR YOU!

GREAT NEW NATIONAL ADVERTISING CAMPAIGN STARTS IN THE SPRING!

Over 350 million FLIT announcements will appear in these newspapers ...

Daily Express Daily Mirror Daily Mail Daily Herald News Chronicle

News of the World Sunday Pictorial The People Sunday Express Sunday Empire News

Also in leading Women's Magazines, first-class Periodicals and big-circulation Provincial Newspapers in England, Wales, Scotland and Northern Ireland.

To qualify for bonus terms, orders must be placed either direct or through your wholesaler in time for delivery by April 30th, 1954.

BONUS ORDERS FOR AEROSOLS MUST BE KEPT SEPARATE

FLIT-WORLD'S NO. I INSECTICIDE-ANOTHER(Esso) PRODUCT

STEMCO LIMITED, 128-132, ALBERT STREET, CAMDEN TOWN, LONDON, N.W.I

Suggested Farcels to Qualify for-

5% BONUS

4 DOZ. X 4 OZ.

0r | DOZ. X 4 OZ. 2 DOZ. X 6 OZ.

0r | DOZ. X 4 OZ. | DOZ. X 12 OZ.

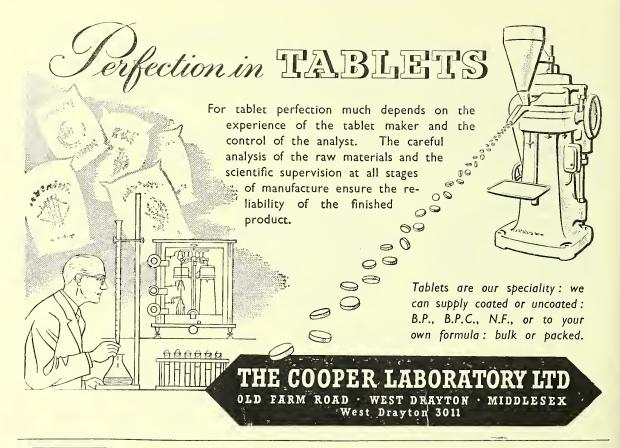
2½% BONUS

2 DOZ. X 4 OZ.

Or I DOZ. X 4 OZ. I DOZ. X 6 OZ.

0r I DOZ. X 4 OZ. 1 DOZ. X 12 OZ.

NOTE:— FLIT AEROSOLS are packed to FULL CAPACITY, containing an average net weight of 4 oz., 6 oz., or 12 oz.





CONSISTENT advertising, backing a product approved by the Medical and Nursing professions, and needed by Mothers everywhere, has made FEEDRITE a top seller wherever feeding bottles and teats are sold.

Write today for attractive show material and Explanatory Leaflets.

Price to the

PUBLIC

5/9d.

1/3d. each

1/3d.

per set

Prices are as follows:

Price to the

51/9d. doz.

11/3d. doz.

11/3d.

per doz. sets

TRADE

Complete FEEDRITE BABY
FEEDER OUTFIT
FEEDRITE SPARE BOTTLES
FEEDRITE SPARE THERMAL
HEAT RETAINING PAD SETS
FEEDRITE ANTI-COLIC
TEATS Cherry or Straight
FEEDRITE RUBBER BOTTLE
STOPPERS
FEEDRITE FOOD AND BATH

FEEDRITE ANTI-COLIC
TEATS Cherry or Straight
FEEDRITE RUBBER BOTTLE
STOPPERS
FEEDRITE FOOD AND BATH
THERMOMETERS

FEEDRITE FOOD RIFE
LIBerty
3443

300 Kingston Road, Merton Park, London, S.W.20





London Office: 100 Dean St., W.1 (Gerrard 3473). Manchester: 13 Marsden Sq. (Blackfriars 8401). Glasgow: 60 St. Enochs Sq.





MACLEANS LIMITED, GREAT WEST ROAD, BRENTFORD, MIDDLESEX

Telephone: EALing 6616

Telephone: Telephone: EALing 6616

Everywhere you look

It's MACLEANS this month







ARCH is going to be a sensational month for the man who sells Macleans! Look these plans for the most intensive, hard-hitting sales drive you've seen.

THE PRESS—hard-selling, ncentrated. Nobody—nobody—will miss sadvertising. It's big. It has something vital to And it says it morning, noon and night. Wherer people look. In the great daily papers. In the ge-circulation Sunday papers. In the popular eklies and in the influential women's papers.

THE CINEMAS—Land's End to hn O'Groats. Full-colour filmlets, brilliantly de, entertaining—and strong-selling. This is what lions will see of Macleans in 400 cinemas oughout the land.

(HLOROPHYLL 100! Don't forget there's a big demand for Macleans Peroxide Tooth Paste with Chlorophyll. Special advertising will help keep up that demand. Display It on your counter.

ON THE BUSES — seen by millions daily. Over 8,000,000 people live in London. Millions more visit it. To attract these potential customers Macleans famous slogans are prominent on London's buses.

And in the Shops!

-your part of the great March drive.

Here's how you cash in on the stepped-up Macleans campaign. Show Macleans on your counter. Use the really first-class Macleans showcards in your windows. All this material will be gladly provided by the Macleans representative or by Macleans direct on request. And Macleans will gladly install attractive window displays designed to bring customers in.

So get ready. Keep stocks well up. And stand by for bigger-than-ever sales!



Evan Williams Liquid Lanolin Shampoo Advertising appears throughout the National Press

THE SEQUEL TO A BEST SELLER!

Evan Williams
Liquid Lanolin Shampoo

NOW AVAILABLE IN STYLISH BOTTLES!

- * Packed in sales-compelling cartons!
- * Each bottle contains enough for at least 3 shampoos.
- * Retail price 1/6d. per bottle.

Trade price **10/4d.** per doz. (P.T. 2/7).
Subject to reduction on Parcel Values.

★ SPECIAL INTRODUCTORY OFFER—13 to the dozen
—minimum 3 dozen in a £2 parcel (minimum carriage paid)

Can be included with other goods.

SALES DEPT. EVAN WILLIAMS CO. LTD., AINTREE ROAD, PERIVALE, MIDDX.



W. T. OWBRIDGE LIMITED . OSBORNE STREET . HULL



When your advice is sought

for an effective antacid.

Completely soluble in the gastric juice and devoid of the disadvantages accompanying carbonate medication, 'Milk of Magnesia' is the antacid gastric sedative of choice in morning sickness, biliousness and acute indigestion.

Widely endorsed as a safe antacid laxative for children and infants from the earliest age.

'Milk of Magnesia'

The other Phillips' Proven Products are:-

'Mil-Par' REGD.

A genuinely mild evacuant ideally suited for administration to young infants, the enfeebled, sick or elderly.

'Milk of Magnesia' Tablets

Particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion. Pleasantly mint flavoured.

Phillips' Dental Magnesia Toothpaste

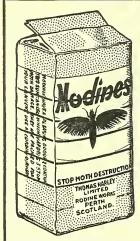
A dentifrice of proved efficacy in keeping the teeth scrupulously clean. Contains 'Milk of Magnesia' to neutralize harmful mouth acids.

'California Syrup of Figs' REGD.

Compounded from the natural extracts of senna and figs. A gentle yet efficacious laxative for family use.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179 ACTON VALE, LONDON, W.3.

Modines



Modines for MOTH PREVENTION

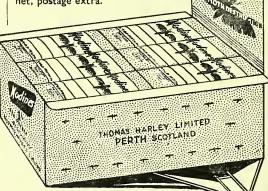
Now is the time to order and display!

TERMS

Retail Price - 1/- per packet
Trade Price - 8/- per dozen

Carriage paid quantities

Minimum 6 dozen - 7/9 per dozen
12 dozen - 7/6 per dozen
Smaller quantities at 8/- per dozen
net, postage extra.



SPECIAL OFFER

One I/- packet FREE with every dozen ordered during March. Place your order now through your usual wholesaler or Sole Distributors for England, Wales and Scotland.

DALMAS LIMITED

JUNIOR STREET, LEICESTER.

Depots at:
LONDON—140-142 St. John St., E.C.I. GLASGOW—29 Waterloo St., C.2.

A PRODUCT OF THOMAS HARLEY LTD.,

RODINE WORKS, PERTH, SCOTLAND.

Lusty's

For Prompt Delivery

MEDICATED CONFECTIONERY

Linseed, Liquorice and Chloro. Lozenges. Balm of Gilead Pastilles.

Skeltons Herbal Cough Lozenges. (2 oz. cartons.)
Potters Winter Cherry Pastilles. (2 oz. tins.)

HERBALENE · GARLIC PERLES & TABLETS
SEAWEED PREPARATIONS · PURE YEAST TABLETS
CHARCOAL TABLETS · RASPBERRY LEAF TABLETS
PILEWORT & WITCH HAZEL SUPPOSITORIES
SLIPPERY ELM SOAP · KELP TABLETS
MEDICINAL HERBS IN 5d. PACKETS
HERBAL SMOKING MIXTURES (In bulk & packed)
NATURAL HERB TABLETS · CULINARY HERBS

Pills and Tablets supplied to own formula bulk or packed.

YOUR ENQUIRIES WELCOMED TRADE TERMS ON REQUEST

LUSTY'S NATURAL PRODUCTS CO.

278-280, LONDON ROAD, WESTCLIFF-ON-SEA, ESSEX

Telephane: SOUTHEND 2177

Dr. INVERNI & DELLA BEFFA, S.p.A.
VIA RIPAMONTI 99,
MILAN. (ITALY)

Manufacturers of
Drug Extracts for all purposes

L-ASPARAGIN,

pure - Natural,

APIOL,
COLCHICIN, B.P.1953,
USP. XIII,
MALE FERN EXTRACT.

B.P. 1953



Producers of all types of SPUN RAYON YARNS

for towels, tapes, bandages,
gauze lint and plasters
for the surgical dressing trade



All enquiries to:

FINE SPINNERS & DOUBLERS LTD

ST. JAMES'S SQUARE, MANCHESTER 2

Telephone: Blackfriars 8686 Telegrams: Distaff, Manchester

Leicester Office: BRITANNIC HOUSE, 142 CHARLES STREET, LEICESTER Nottingham Office: FRIARY CHAMBERS, FRIAR LANE, NOTTINGHAM

Papaverine Alkaloid B.P.C.

Papaverine Hydrochloride B.P.
Papaverine Nitrite
Papaverine Sulphate
Barbonin (Ethyl Papaverine)
Barbonin Hydrochloride
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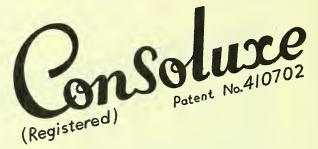


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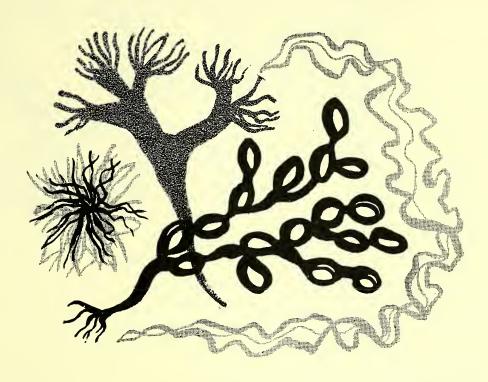
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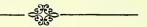
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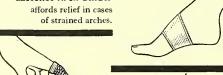
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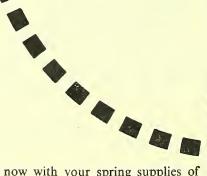
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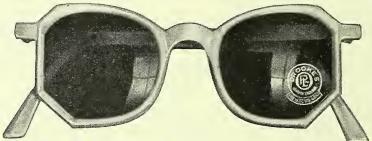
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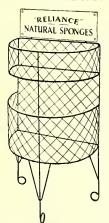
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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161

March 6, 1954

No. 3863

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Volume 161

MARCH 6, 1954

No. 3863

Doctors' Prescribing Costs

TASK FOR SCOTTISH PRICING BUREAUX

THE Department of Health for Scotland has made arrangements, in consultation with representatives of the medical profession and of Executive Councils, for the periodical issue of statistics about general practitioners' prescribing.

The statistics are being produced by the pricing bureaux threc times a year, and each set will cover a month's prescriptions. Preparation of the first month's statistics began in January, using forms dispensed in August 1953, and will be completed by the end of April. Each Executive Council will receive, for each month concerned, a table of statistics showing the average cost per prescription form and per patient for each doctor resident in the area, with corresponding averages for the whole area and all Scotland. A doctor's statistics will be based on the total cost of his group-A prescription forms (fully priced), the total cost of his group-B prescription forms (calculated from the sample of those forms priced for calculating chemists' payments) and the average monthly cost of his stock orders in the month under review and in the two preceding months.

For a doctor on the medical list of more than one Executive Council, total prescribing costs will be calculated and included in the statement sent to the Executive Council in whose area he is resident; that Council will extract from the statement the particular doctor's average costs and send the figures to each of the other Councils concerned. Normally, any investigation of the doctor's prescribing will be made by the Local Medical Committee of the area in which the doctor is resident. In cases of doubt the Executive Councils concerned will consult together on action to be taken.

For a partnership, the average cost per EC10 form issued will be given for each partner, but the average cost per patient will be calculated on the total number of patients on the lists of all partners. A dispensing doctor paid on a capitation basis will have his average cost per patient determined by adding 9\frac{1}{3}d. for each "dispensing" patient to the total cost of EC10 forms issued and dividing that sum by the number of patients on his list.

Preparation of the statistics involves the resorting of all prescription forms submitted by chemists to the Drug Accounts Committee and cannot therefore be begun until the forms have been priced and kept available for two months after authorisation of payment for inspection by any chemist who wishes to examine them.

In sending a slip to each doctor showing his prescribing statistics, the Executive Council will give corresponding average costs for the whole area and for the whole of Scotland. To enable the Local Medical Committees to carry out any investigations they consider desirable, the Committees will receive the actual prescriptions and stock order forms issued by every doctor whose average cost per patient substantially exceeds the local or national average cost per patient.

B.P. CONFERENCE Grants for young members

THE Executive of the British Pharmaceutical Conference has decided to use £500, placed at the disposal of the Conference by the Council of the Pharmaceutical Society, to encourage the attendance at the Oxford meeting. September 13-17, of young pharmacists and research workers who might otherwise be unable to be present. Applicants complying with the following requirements are being given one full book of Conference tickets and one third-class return railway ticket to Ox-

ford from the station nearest the applicant's usual residence:—

1. Applicants must be pharmacists or other members or the Conterence, except students with no scientific degree or similar qualification, who would be unable to attend unless assisted. Students who will be taking during the summer an examination which, if they are successful, would bring them within the above categories may apply, but any award is subject to the applicant passing the examination before the Conference meeting.

2. Applicants must be under twenty-seven years of age on the first day of the Conference, except those who served

2.. Applicants must be under twenty-seven years of age on the first day of the Conference, except those who served in the aimed forces, or who were engaged full-time in a comparable form of national service during the 1939-45 war. In those cases the age limit is extended by the period of such service.

3. Applicants must not have received

3. Applicants must not have received an award on more than one previous occasion.

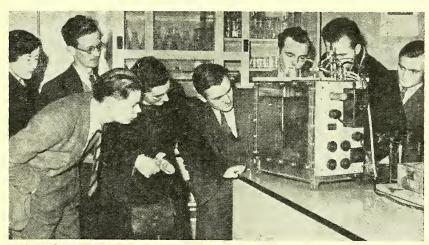
4. Applications must be sent to the Secretaries, British Pharmaceutical Conference, 17 Bloomsbury Square, London, W.C.1, to be received not later than July 17. They must give full name, date of birth, dates on which national service commenced and terminated, name of home railway station, fare from that station to Oxford and a brief statement of the applicant's career including qualifications and the dates on which they were obtained.

tained.

5. Each application must be supported by a letter of recommendation from the secretary of the branch of the Pharmaceutical Society to which the applicant belongs, the head of the pharmacy department of a college or school, or a responsible officer of the organisation in which he is employed, confirming that the applicant complies with the above conditions.

Every applicant will be adviced of

Every applicant will be advised of the result of his application as soon as possible after receipt so as to en-



BRISTOL STUDENTS AT GREENFORD: Twenty-one pharmacy students from Bristol College of Technology visited the Greenford, Middlesex, plant of Glaxo Laboratories, Ltd., recently. They were accompanied by their lecturer (Mr. Russell J. Hobbs, F.P.S.). They met research workers in the pharmacy unit, visited the ampoule and tablet department, and watched operations in the streptomycin filling hall.

able him to make any necessary holiday arrangements. Successful candidates must arrange their own accommodation. Railway tickets will be issued shortly before the meeting and the Conference tickets are being distributed in Oxford.

CHLORAMPHENICOL

Ministry memorandum on risk THE Ministry of Health has issued a memorandum on the possibility of the constitution of the blood being affected by administration of chlorampheni-col. It states that thirty-one cases of blood dyscrasias following administra-tion of chloramphenicol have been analysed (*Lancet*, 1954.I.285). Aplastic anæmia was the commonest dyscrasia (twenty-eight cases) but agranulocytosis and thrombocytopenia also occurred. Twenty-four patients died and recovery was complete in only three of the remainder. In a few instances the dyscrasia followed a total administration of 6-12 gm. and the shortest duration of treatment was five days; in the majority however it was apparent that that toxic manifestation of chloramphenicol followed heavy and prolonged dosage, often with repeated courses. In twentyfour cases the average total dose was more than twice 50 mgm. per kilo per day for seven days in adults (roughly 25 gm.) or 100 mgm. per kilo per day in children. Those dosage rates were exceptionally heavy and rarely necessary. Fifteen patients had repeated courses. "It is impossible from that investigation," continues the memorandum, "to determine the frequency of blood dyscrasia following chloramphenicol since the total population at risk is unknown and the inquiry was not comprehensive. It is apparent that the incidence is low since the condition is usually fatal and cases would therefore come to notice. When excessive dosage is avoided the incidence must be very low; thus no cases have arisen during the Medical Research Council's controlled therapeutic trials in pneumonia, whooping cough and infantile gastroenteritis. It cannot be too strongly emphasised, however, that the use of chloramphenicol is not without risk and prolonged or repeated administration (especially of large doses) should be avoided particularly in conditions such as chronic respiratory and urinary tract infec-

PHARMACISTS' UNION

Ballot on employee-only members

AT the annual meeting of the Registered Pharmacists Union held in London on February 24 it was resolved "That a ballot be taken of Union members on the desirability of altering the rules of the Union so that, in future, membership of the Union shall be restricted to employee pharmacists." The council ordered a postcard ballot of members. It was also agreed to take steps to provide free accident insurance for members, members being notified of the operative date. Earlier in the meeting the secretary (Mr. G. H. Armitage) had announced that, owing to ill health, he was resigning his office. Mr. D. J. Gibson was elected to succeed him. The following were elected

members of council: Messrs. R. F. Abbott, G. H. Armitage, V. Dobson, D. J. Gibson, W. T. L. Hives, F. J. Neale, G. N. Thomas and G. H. Sheard.

LOCAL NEWS

School of Pharmacy Reunion

THE annual reunion dinner and dance of the School of Pharmacy, Leicester College of Technology, was held on February 24. The toast of "Our Guests" was responded to by MR. GRANVILLE SHAW (a member of the



Mr. M. Kalsi (a student from Kenya) being received by Mr. C. Gunn (head of the School of Pharmacy, Leicester College of Technology) and Mrs. Gunn at the School's annual reunion dinner and dance.

Pharmaceutical Society's Council), who said that the pass list of some schools of pharmacy was not good enough but Leicester was satisfactory. The syllabus might be responsible for the failures, and that was a point to be investigated. Mr. H. O. MEEK, who had proposed the toast, recalled that he and Mr. Granville Shaw had been students together in Manchester fortyseven years earlier. The students of today were a far better lot than those of his own time, he said. There had been a swing toward the technical college in the root for lege in the past few years. At a British Association meeting [1948] Sir Henry Tizard had said that the need of Britain was not research but the application of what was known. He had been proved right.

During the evening the chairman (Mr. C. Gunn, head of the School of Pharmacy) took wine with (among others) Mr. Albert Mason (one of his first pupils in 1929), with Miss Joan Faulkner and Mr. Peter Halford (winners of the Umney memorial prize in 1952 and 1950 respectively), and with his teaching staff. Nearly 200 attended the reunion.

Why Fees Should Not be Cut

AT a recent meeting of the Slough rotary club, Mr. A. J. Campbell, M.P.S., Slough, in the course of an address, said that chemists should not be expected to cut their fees as they had no control over the total expenditure on the National Health Service.

SCOTTISH NEWS

Investigations of Prescribing

REPRESENTATIVES of the general medical services subcommittee (Scotland) had a meeting recently with representatives of the Department of Health on the Department's proposal that items in categories 5 and 6 of the Cohon committee of the recently of the re Cohen committee's list prescribed by general practitioners should automatically be referred to Local Medical Committees for investigation. The Department has agreed to reconsider the proposal. It has undertaken to collect statistics to ascertain the number of prescriptions containing items listed in categories 5 and 6 and to review its proposal with the subcommittee when those statistics are available. In the meantime, prescribing of such items will not automatically lead to the scripts being referred to Local Medical Committees for investigation. The subcommittee has agreed that the Department shall not be precluded meanwhile from referring to an Executive Council for investigation by a Local Medical Committee any unduly frequent prescribing of such items by a practitioner, it being understood that such reference may only be made in exceptional circumstances.

Drug Tariff Amendments

THE March amendments to the Scottish Drug Tariff include a statement on the pricing of non-proprietary tablets (see C. & D., February 27, p. 202). In future the dozen price will be the appropriate fraction of the wholesale list price for 100, or larger pack where that is indicated. The 100 price will be the wholesale list price for 100 or the appropriate fraction of the list price for a larger pack where that is indicated. Those fractions will be rounded up to the nearest ½d. above. Calculations for individual prescriptions will be made from the tariff prices to the nearest ½d. above or below. Where a tablet, whose tariff price is calculated from the price per 100 in the wholesale list, is ordered in quantities greater than 100, the price will be the wholesaler's price, if given, for that quantity or the appropriate fraction of the next larger pack. Where 1,000 or more of a tablet, whose tariff price is calculated from the wholesale price per 1,000, is ordered, the net cost price will be calculated directly from the 1,000 rate.

Price List for Doctors

THE Department of Health for Scotland has published a booklet, for circulation to doctors, showing the costs of some commonly prescribed drugs. The list is similar but somewhat longer than that issued by the Ministry of Health in October 1953 (see C. & D., 1953. II. 361). In the section on proprietaries in the Scottish list there are 175 proprietary drugs (compared with 124 in the English list) set against named "official" equivalents. Of those, 104 are more expensive than the equivalents, forty are cheaper and thirty-one the same price as their official equivalents.

IRISH NEWS

Gaelic Athletics

THE College of Pharmacy Gaelic Athletic Association Club has sent to Irish pharmacists an appeal for funds together with numbered cards for a sweep on the Grand National. The prizes offered are £30, £20 and £10. The committee of the club would like every card returned for checking whether wholly or partially filled. During February the pharmacists' team played and won two matches. In the first against St. Joseph's they scored 3 goals 6 points (against 7 points) and against Parnells the scores were: College of Pharmacy, 2 goals 9 points; Parnells, 1 goal.

President's "At Home"

FILMS on "Nalorphine" and "The Human Blood Fluke" were shown at an "at home" given by the president of the Pharmaceutical Society of Northern Ireland (Mr. W. H. Boyd) in Belfast on February 22. Films taken by Mr. S. E. Campbell at the British Pharmaceutical Conference in 1953 were also shown. Mr. G. E. McIlhagger thanked Mr. S. N. Ledlie (Northern Ireland representative of Burroughs Wellcome & Co.) who had supplied the films.

NEWS IN BRIEF

National Insurance Cards. — Employers and insured persons holding orange National Insurance cards are reminded that the cards should be exchanged for new green ones at a local Pensions and National Insurance office by March 6.

More Pneumonia Deaths, — Deaths from pneumonia in the large towns of England and Wales during the week ended February 13 totalled 495, 113 more than in the previous week, but there have been only 2,361 deaths from pneumonia so far in 1954, compared with 3,652 in the same period in 1953.

Food Standards Committee. — The Minister of Food has appointed Miss E. Walker, O.B.E. (an assistant sccreretary, Ministry of Food), a member of the Food Standards Committee in place of Mr. N. R. C. Dockeray; and Mrs. J. J. Tait one of the joint secretaries of the committee in place of Mr. C. Ellis.

Population Increase. — The population of England and Wales at June 30, 1953, was 44,090,000 (21,213,000 males and 22,877,000 females), an increase of 150,000 over the mid-1952 figure, according to the Registrar General's local population estimates for 1953, published on March 3 (H.M. Stationery Office, 6d.).

Bovine T.B. Eradication Areas.— THE following areas are being declared tuberculosis eradication areas (see also C. & D., January 2, p. 2) on March 1, 1955: 1, Cumberland, Westmorland adjoining parts of Lancs, Durham and Yorks (North and West Riding); 2, Brecon, Merioneth, Montgomery and Radnorshires; 3, Midlothian, West Lothian, Selkirk, Fife, Clackmannan, Kinross, and parts of Argyll, Perth and Inverness shires; and 4, the outer and inner Hebrides.

TOPICAL REFLECTIONS

By Xrayser

Branch Resolutions for May 20

The resolutions accepted for presentation at the Branch Representatives' meeting of the Pharmaceutical Society on May 20 (p. 204) form, as a whole, a better selection than most of their predecessors. In past years it has sometimes been necessary to criticise more than one of the motions adopted for the corresponding meeting. Whether their triviality should have caused their suppression by the Council, or whether they were as good as any offered at the time, their effect on the reader was about the same. This year there is, I believe, an increasing sense of reality, of what is or should be practicable, by the framers of these sentences. Let us look at a few, taking them in order of their appearance (as theatre programmes put it). The Birkenhead Branch asks that wholesalers' and manufacturers' labels on official preparations should clearly indicate the year of issue or publication of the book named. This may seem a small point, but it is important. Some of us are old enough to remember that wholesale houses continued to supply, for some time after the British Pharmacopæia, 1885, came in to force, a spirit of nitrous ether of an older Pharmacopæia. That, no doubt, was according to order and was appropriately labelled; but it may easily have led to confusion and trouble.

Further Branches' Opinions

Resolutions on apprenticeship have been accepted from Birkenhead, Bradford, Leeds, and Somerset. This factor in training for pharmacy is evidently causing anxiety; and the anxiety is natural. In each of the four statements the shortness of the optional post-graduate period of service is the ground of dissatisfaction. It may reasonably be argued that even two years is hardly long enough for a youth who has never been behind a pharmacy counter to acquire a good working knowledge of what is required there. Pharmacists who attend the meeting on May 20 and those who read about it are alike concerned in trying to ensure that young people entering this exacting vocation are adequately launched. From Glasgow and North Staffordshire come protests against irregular opening of pharmacies beyond prearranged hours. My view on this subject has already been expressed. The second motion from North Staffordshire. asking that the Society's annual meeting should be held in the provinces "at least every other year," seems to ask for the impracticable. An ingenious suggestion from Slough, that "area responsibility by members of Council should be instituted forthwith," looks like an alternative to a proposal for territorial representation: if adopted, it might pave the way for that scheme.

Rudimentary Pharmacy in England

One phrase in your report of Dr. J. M. Rowson's recent lecture on the evolution of pharmacy (p. 210), "the beginnings of pharmacy in England were shrouded in mystery," set me thinking. The mystery is acknowledged: but I like to believe—though the belief may be only conjectural—that some slight knowledge of preparing medicines remained after the visit to this country, in the year 43, of Scribonius Largus, a Roman medical practitioner who accompanied Claudius Cæsar during a military expedition. Largus afterwards compiled his "Compositiones Medicamentorum," containing about 300 formulas. This connection with Roman medicine may be linked with stone stamps that have been dug up from time to time. One of these stamps was described in the C. & D., 1924.I.910; the probability is that it was used for identifying lozenges or some other form of solid ingredients kept in store. Other stamps of this type are known. We can scarcely suppose that Roman inhabitants of or visitors to Britain brought such things as ornaments: the inference is that the stamps were employed to distinguish medical products. Cockayne's translations from Anglo-Saxon leech-books show that, after the Roman occupation, medicaments were administered with the reciting of charms, the charms being, it seems, essential to the treatment.

BRANCH AND ASSOCIATION MEETINGS

COVENTRY

Film on South America

AT a meeting of the Coventry and Warwickshire Branch of the Pharmaceutical Society in Coventry on February 8, Mr. M. B. NORTH, M.P.S., Northampton, showed a coloured film of his holiday trip to South America. There was an attendance of eighty and a collection for the Society's Benevolent fund realised over £5.

BEDFORDSHIRE

Art Treasures Shown

TREASURES from the museum at Luton Hoo ranging from 10th century European ivories to Flemish and English paintings and later Italian bronzes were shown at a meeting of the Bedfordshire Branch of the Pharmaceutical Society in Luton in February. Major Longden (curator, Wchrner museum) in an illustrated lecture on the Wehrner collection gave the historical background of the house which was built by Robert Adam in 1762 and the grounds which were laid out by Capability Brown. MR. L. G. Cook asked for information on the drug jars in the collection, and MR. J. TOWELL (chairman), thanking the speaker, suggested that the branch might visit the museum in the summer.

PORTSMOUTH

"Throw Away Old Medicines"

THE public should be urged to throw away old and unused medicines, said MR. L. C. Nickolls (director of the Metropolitan Police Laboratory, New Scotland Yard), addressing a meeting of the Portsmouth Branch of the Pharmaceutical Society in Portsmouth on January 21, Mr. H. N. Griffiths in the chair. Mr. Nicholls said that one of his department's biggest problems was devising tests for the identifying of the newer synthetic dangerous drugs, many of which had similar chemical reactions. The Home Office was particularly conceined at the ever-increasing amount of barbiturates which was finding its way into the hands of the general public; the notable danger being the handing on of those poisons from

one person to another. In his opinion, Mr. Nickolls said, all medicines were dangerous, and he advised pharmacists to label all medicines "Keep away from children." He was very pleased to be able to say that serious errors in the dispensing of prescriptions were very rare.

CROYDON

Three Aspects of Photography

A TALK on three different aspects of photography was given by Mr. C. K. NEALE (Ilford, Ltd.) to members of the Croydon Branch of the Pharmaceutical Society and of the Croydon Branch of the Photographic Dealers Association in Croydon on January 28. Speaking on "Miniature Camera Technique" Mr. NEALE said that the disadvantage of using a 35mm, camera was that one

or two specialised subjects could not be photographed with it, but there were many subjects for which it could be used, including sporting pictures, landscapes, portraits, views and scientific work. Since the camera weighed only work. Since the camera weighed only about 1½ lb. it was obvious that the advantages more than outweighed the disadvantages. Mr. Neale also spoke of the short time that those cameras had been in use and referred to the publicity that accompanied their introduction. Mr. Neale went on to discuss flash photography. He said that every camera user whose camera would take time exposures was a potential flash user. From the simplest apparatus he would graduate to a better camera and eventually to synchro-flash. Mr. Neale said that when taking colour photo-graphs exposure had to be very accurate to ensure good results. That part of the talk was illustrated by a selection of lantern slides.

LOCAL DINNERS AND DANCES

GREAT YARMOUTH

First Post-war Dinner

FIFTY members attended the first postwar dinner and dance of the Lowestoft and Great Yarmouth Branch of the Pharmaceutical Society, in Great Yarmouth, recently. Mr. Thomas Tosh (chai man of the Branch) presided, supported by Mr. E. C. Corkell (vice-chairman). Proposing the toast of the Pharmaceutical Society, Mr. Tosh stressed the importance of 100 per cent. support of all members.

BOLTON

Pharmacy's Prestige High

THE prestige of pharmacy throughout the county was high, said Mr. T. HESELTINE (president of the Pharmaceutical Society) at the annual dinnerdance of the Bolton Pharmaceutical Association, held in Bolton on February 10, and Bolton was doing much to maintain that standard. Mr. Heseltine was responding to the toast "The Pharmaceutical Society," proposed by the mayor of Bolton (Alderman J. Parkes). Mr. W. Crumblehulme (president of the Association), proposing the loyal toast, mentioned the close and happy relationship between the

mcdical and pharmaceutical professions in Bolton. MR, H. PORTER proposed the toast to the National Pharmaceutical Union and MR, H. STEINMAN replied. DR, W. H. SIMMONS (president of the Bolton Medical Association) responded to the toast "Our Visitors," proposed by MR, N. BERRY.

SOUTHEND-ON-SEA

250 Attend

ABOUT 250 members and guests were present at the annual dinner of the Southend Branch of the Pharmaceutical Society, held on February 17. Proposing the toast of the Society, Alderman E. N. Selby (mayor of Southend) said he was pleased to toast any society which had as its aim the maintenance of standards in a profession. It was the duty of the Society to see that only qualified persons handled medicines. Mr. E. A. Brocklehurst (vice-president of the Society) responded. Mr. R. H. Kemp (chairman of the Southend Branch) proposed a toast to the guests and Mr. J. D. Mackenzie (secretary of the Romford Branch) and Mr. S. J. McAdden responded. The proceeds of a raffle held during the evening are being given to the Society's Benevolent Fund.



BOLTON DINNER AND DANCE: A group photographed at the annual dinner-dance of the Bolton Pharmaceutical Association (report above). Seated in centre of front row are Mr. T. Heseltine (president of the Pharmaceutical Society) (fifth from right), then in order, Mrs. Heseltine, Mr. W. Crumblehulme (president, Bolton Branch of the Society) and Mrs. Crumblehulme. . (Photo, Tillotson's Newspapers, Ltd.)



LEGAL REPORTS

Unauthorised Possession.—At Marlborough Street, London, magistrates' court, recently, Salem Esolad, Cricklewood, was sentenced to four months' imprisonment for being in unauthorised possession of 117 grains of Indian hemp. When searched he had seventeen brown paper packets in his possession.

Foot Through Pharmacy Window.-At Kingston county magistrates' court recently, S. W. Parker, Morden, was remanded in custody for three weeks for a medical report after being charged with maliciously breaking a window at the Regal Pharmacy, Ltd., 106 Malden Road, Malden. The manager of the pharmacy said he heard a crash, went out and saw the window had been smashed. Parker was walking away. When asked if he had done anything to the window he replied, "Yes, I am just going to give myself up." He walked quietly to the police station. Parker made a statement that it was necessary for him to get locked up because someone was after him.

Fines for Inadequate Label. -Romford, Essex, magistrates' court, on February 23, fines totalling £10, with 25s. costs, were imposed on Dr. Gilbert's Health Foods, Ltd., Grantham, after pleas of guilty had been entered in respect of a charge of selling a nontoxic salt having an incorrect label, and a charge of selling the product with a label that was calculated to deceive. The solicitor prosecuting on behalf of Hornchurch urban district council alleged that the label failed to state that the salt in question contained four mineral substances, and that it was calculated to deceive as to its nutritional value. He admitted that the product had no harmful effect but was "similar to ordinary salt on meat." Defending solicitor said that that type of product had been made by the company since 1911, and his clients had not encountered any trouble previously. On behalf of the company, the plea of guilty was in respect of technical offences: there was no intention to mislead the public. All offending labels had been withdrawn, and new labels describing the product as "Spice of Life" were now in use.

Imprisoned for N.H.S. Frauds.—At Essex Assizes, Chelmsford, on March 1, the trial was concluded of Dr. A. L. Basham, Trinity Road, Rayleigh, Essex, and Mr. G. W. Unwin, managing director of Yardley (Rayleigh), Ltd., chemists, who had been charged (see C. & D., 1953.II.412) with conspiring together between December 1, 1952, and March 31, 1953, to defraud the Essex Executive Council. There were additional charges of causing the Council to pay to Yardley (Rayleigh), Ltd., by false pretences with intent to defraud, cheques for £1,121, £1,393 and £827. The defendants pleaded not guilty. They were found by a jury to be guilty of all charges, and both were sentenced to twelve months' imprisonment on each charge, the sentences to run concurrently. The judge, summing up, had said: "The whole heart of this case is that the prescriptions under

the doctor's signature at times prescribed drugs that were never dispensed and never supplied. Therefore there was a demand for money to which the chemist was not entitled." Before passing sentence, the judge said that he would take into consideration the fact that Basham had been in a mental hospital and had been in custody since December 1953, and would treat both men equally. They were professional men and sentence meant disaster to both of them. He would also take that fact into consideration.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

ROY WARD DAVID (CHEMISTS), LTD. (P.C.).—Capital £7,000. To carry on the business of chemists, druggists and librarians, etc. Directors: Elwyn R. W. David, M.P.S., and Cecil May David. R.O.: 3 The Square, Llanharan, Glam.

DESMOND McCAFFERTY, LTD. (P.C.).—Registered in Belfast. Capital £100. To carry on the business of chemists and druggists, etc. Directors: Michael L. McCormick, M.P.S.N.I., and Vera McCafferty. R.O.: 63 Strand Road, Londonderry.

W. SAINT (CHEMISTS), LTD. (P.C.).—Capital £4,000. To carry on the business of chemists and to manufacture and deal in chemicals, drugs, etc. Directors: Henrietta E. Saint, 54 Fortuneswell, Portland; Frederick H. Warren; Thomas S. Braund, M.P.S.; and George J. Caesar, M.P.S.

HENRY SYKES (PHARMACY), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers, importers and exporters of chemicals, bleaching powders and liquids, etc. Directors: George A. Walker, M.P.S., and Lily Walker. R.O.: 218 Wakefield Road, Moldgreen, Huddersfield.

A. REVAI & CO. (CHEMICALS), LTD. (P.C.).—Capital £25,000. To carry on the business of manufacturers of and dealers in chemicals, solvents, essential oils, waxes, hormone products, ctc. Directors: Paul C. Gondos and Richard E. Spall. R.O.: 7 Idol Lane, London, E.C.3.

SINCLAIR LINDWALL & CO., LTD. (P.C.).—Capital £5,000. To carry on the business of analytical and manufacturing chemists, etc. Directors: Gerald Sinclair, Stanley V. G. Lindwall and John A. Hulcoop. Solicitors: Carleton-Holmes & Co., 12 Bedford Road, London, W.C.1.

MAGOWAN VICARS (CHEMICALS), LTD. (P.C.).—Registered in Belfast. Capital £100. To carry on the business of manufacturers and dealers in insecticide, fungicide and fertiliser preparations of all kinds, etc. Subscribers: Kathleen Burns, 7 Crocus Street, Belfast, and Una McErlane. The first directors are to be appointed by the subscribers.

HEMOSOL LABORATORIES, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dcalers in all kinds of chemicals, surgical goods and appliances, etc. Subscribers: Don S. Momand, Cyril H. Kyte, Vera E. Vine and John A.

Bunce. The first directors are to be appointed by the subscribers, R.O.: 58 Albany Street, London, N.W.1.

PRESPAK (LONDON), LTD. (P.C.).—Capital £5,000. To carry on the business of packers and dispatchers of goods, manufacturers of and dealers in packaging machinery, etc. Directors: Cecil J. Coward, Jonathan G. Scandling and Frederick J. Punter. R.O.: 5 Jaffray Place, London, S.E.27.

Company News Previous year's figures in parentheses

HICKSON & WELCH (HOLD-INGS), LTD.—A final dividend on the ordinary shares of 5½ per cent. for the year ended September 30, 1953, is recommended, making a total of 8½ per cent. (final, 4½ per cent.; interim, 3 per cent.). Profit of group, after charging depreciation of £46,868 (£35,027) is £132,416 (£140,400). Group net profit after tax, £57,961 (£49,427).

LONDON RUBBER CO., LTD.—Following the liquidation of the operating subsidiary companies within the group, and the commencement of trading by the holding company, it has been decided to change the accounting date from December 31 to March 31, and the next published accounts will therefore cover a period of fifteen months ending March 31, 1954.

BUSINESS CHANGES

THE telephone number of Delavelle, Ltd., Orsman Road, London, N.1, is now Shoreditch 8811.

MISS MARY E. COSTELLO, M.P.S.I., has opened a pharmacy in Rathdrum, co. Wicklow.

MR. T. J. LYNCH, M.P.S.I., has acquired a pharmaceutical business at Albert Road, Glenageary, co. Dublin.

PEAK FILM PRODUCTIONS are removing to 37 Devonshire Street, London, W.1 (telephone: Wclbeck 2994), on March 8.

THE personal products division of Johnson & Johnson (Gt. Britain), Ltd., is removing to 24 Princes Street, Hanover Square, London, W.1, on March 8.

ASSOCIATION OF BRITISH CHE-MICAL MANUFACTURERS is removing to Cècil Chambers, 86 Strand, London, W.C.2 (telephone: Covent Garden 2363), on March 8.

Appointments

PURDY MACHINERY CO., LTD., Euston Buildings, Gower Street, London, N.W.1, have appointed Mr. A. Houlton (formerly works manager of the associate company, Farrow & Jackson, Ltd.) their Scottish representative. He is also representing the associate company.

OVERSEAS VISIT

MR. W. WALTON, B.Pharm, F.P.S. (chief export executive, Ciba Laboratories, Ltd.), left England by air on February 17 for a business tour of the Caribbean area, where he will be meeting the company's agents and calling on doctors and chemists. He is returning on May 5.

THE WEEK IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MOVING the second reading in the House of Commons on February 26 of the Safety in Employment (Inspection and Safety Organisation) Bill, MR. W. T. PALING said that existing methods of prevention gave employees no right to insist on the enforcement of safety standards, except to a limited extent. He had had "letters galore" from the principal trade unions, supporting the Bill and demanding something new in safety in employment.

MR. H. J. FINCH, supporting the Bill, said it was estimated that there were 200,000 eyc injuries in industry every

year. Some were minor but others resulted in total blindness.

MR. G. S. SUMMERS: The element of compulsion here is a misplaced idea. If this Bill were made law it would take from management that proper responsibility for safety and health which now rests upon their shoulders.

MR. F. LEE: None of us can be happy in rejecting a Bill on committee points and leaving the issue in abey-

ance.

Mr. H. Watkinson (Parliamentary Secretary, Ministry of Labour) gave the House a pledge that, in the Ministry of Labour, if any industry could show a case where, by bringing forward regulations, they could improve the safety, health, and welfare of those who worked in it, the Department would get on and do the job. The methods proposed in the Bill were wrong in principle because they substituted the compulsory for the voluntary system. The Factory Acts contained adequate powers to apply compulsion where needed.

A closure motion was rejected by 82 votes to 75 and the debate was adjourned.

Weather Modification

On the motion for the adjournment in the Commons on February 23, Mr. Geoffrey De Freitas asked for increased research into weather modification, a subject that used to be known, he said, as "rain-making."

Warble-fly Publicity

Replying to Mr. G. WILLIAMS on February 25, THE MINISTER OF AGRICULTURE (Sir Thomas Dugdale) said that, in co-operation with local authorities, who were responsible for the en-forcement of the Warble Fly Order, he proposed to arrange an intensive publicity, advisory, and educational campaign in the coming months, designed to bring home to owners of cattle their obligations under the order.

MR. WILLIAMS suggested that dyed derris powder for dressing cattle should be used so that an inspector could see which cattle had been dressed.

Food and Drugs Bill

On February 26, SIR R. BOOTHBY asked the Minister of Food if he was aware that trade associations had already received from his Department a copy of sixty-seven draft regulations proposed under the Food and Drugs (Amendment) Bill, and a request for their observations by March 15; and whether, since it was impossible for associations with large memberships to give adequate consideration to his detailed proposals in that time, he would recast those arrangements.

THE MINISTER OF FOOD (Major Lloyd George): Proposals for food-hygiene regulations were circulated in January for comment to all organisations likely to be affected by them. The object is to ensure that they have ample oppor-tunity to express their views. Representations received after March 15 will, of

course, be fully considered.

In the committee stage of the Food and Drugs (Scotland) Bill in the House of Lords on February 23, an amendment moved by the EARL OF HOME (Minister of State, Scottish Office), that the words "nature, substance or" should be left out of clause 6 [labels and advertisements describing incorrectly food or drugs], was agreed to. It was thought, said the Earl of Home, that if the words were left in there would be room for endless argument in court proceedings. Another amendment proposed by the Earl of Home and agreed to provided that, where the name and address of a manufacturer or packer appeared on an article sampled, the sampling officer should be required to inform him that he had taken a sample and from whom. The reason for the amendment was that, where goods had been prepacked by a manufacturer and proceedings might eventually be brought against him, he should know at the carliest possible moment.

An amendment by the Earl of Home that would enable a public analyst unable to perform an effective analysis, probably because he did not possess the necessary equipment, to make use of superior facilities in the laboratory of another public analyst was also agreed.

Cancer Treatment

During the second reading of the Atomic Energy Authority Bill on March 1, THE LORD PRIVY SEAL (Mr. H. Crookshank) said that small radium units had been converted into cobalt units at the University College hospitals at Leeds and Sheffield. The big cobalt bomb presented to Britain in 1953 and the British Empire Cancer Campaign had at last been got to work. It was a strange coincidence that that morning the first patient had been treated with the bomb at Mount Vernon Hospital.

Orange Juice

In a written answer to Mr. D. T. Llewellyn on March 1, THE PARLIAMEN-TARY SECRETARY TO THE MINISTRY OF Food (Dr. Charles Hill) said that all the surplus crange juice concentrate held by the department was being offered for sale through the trade for food manufacturing purposes. The juice had been examined by the Government chemist and by independent public analysts, and the results did not indicate a lead content higher than the general limit for foods recommended by the Food Standards Committee.

Diabetics

In a written answer to Mr. R. F. Crouch on March 1, THE MINISTER OF HEALTH (Mr. lain Macleod) said that there were 98,000 persons in England and Wales on food office registers for special rations for diabetics at the end of 1947.

Foot-and-Mouth Disease

On February 24 THE EARL OF IVEAGH, who said he had been told that in Holland farmers had inoculation against foot-and-mouth disease, and who thought that something might come of that in Britain, was told by EARL DE LA WARR that the disease was neither endemic nor continuing in Great Britain. In 1952, the number of outbreaks for Great Britain had been 495; in 1953 it was forty; so far this year there had been six. In the earlier years there had been three types: A, O, and C; this year there was no trace of type C. The vaccine for foot-and-mouth was effective for between six and eight months. If vaccination were introduced 31 million animals would have to be vaccinated every six months, and three types of vaccine would have to be used. Those who talked about the gravity of paying compensation at the rate of £2,400,000 in 1952 and £130,000 in 1953 should consider that in comparison with the cost of vaccination at the rate he had mentioned.

Wholesalers and Purchase Tax

On March 2, MR. G. Thomas asked the Chancellor of the Exchequer whether he was aware of the difficul-ties in the way of people seeking to establish their own wholesale business in pharmacy due to their inability to register for purchase tax purposes and whether he would now ease the restrictions upon those people by extending the facilities for obtaining the necessary purchase tax certificate. The CHANCELLOR OF THE EXCHEQUER (Mr. R. A. Butler): There are no restrictions on purchase tax registration special to wholesalers of pharmacy goods and I could not make special arrangements for them.

Drug Exports to Eastern Europe

In a written reply to Dr. B. Stross on March 2, the President of the Board of Trade (Mr. Peter Thorneycroft) said that there were no restric-tions on the export of antibiotics and pharmaceutical drugs or chemicals of primarily medicinal use to Eastern European countries.

WILLS

MR. A. R. ARROWSMITH, Westbrook, Willowhale Avenue, Bognor Regis, formerly general manager of Apollinaris Co., Ltd., left £9,678

Mr. H. B. Bush, Vernons, Chappel, Essex (managing director, W. J. Bush & Co., Ltd.), left £123,450 (£117,877 net).

MR. W. J. S. SAUL, M.P.S., 6 Daffodil Street, Shepherds Bush, London, W.12, left £2,473 (£2.419 net).

SIR THOMAS KEENS, D.L., Highfield, Luton, Beds (a director, Laporte Chemicals, Ltd.), left £47,818 (£41,874 net).

BIRTH

BECKETT. — On February 24, to Margaret, wife of Stanley Harold Beckett. M.P.S., 172 Sutcliffe Avenue, Nunsthorpe, Grimsby, Lincs, a son (Michael Howard).

MARRIAGES

HANGER—UNWIN.—At St. Peter's Church, Belgrave, Leics, on February 25, Neville Ray Hanger, M.P.S., 3 East Road, Birstall, Leics, to Patricia May Unwin, M.P.S., 52 Somerville Road, Leicester.

HIGGINS — GREENWOOD. — On February 27, Desmond George Higgins, F.P.S., 91 Ewart Street, Great Horton, Bradford, Yorks, to Rita Greenwood, Hampden Street, Little Horton, Bradford.

JACKSON — FOULKES. — At the Priory Church, Great Malvern, Worcs, on February 6, Arthur Tom Jackson, 83 Malvern Road, Worcester, to Amy Norina Foulkes, M.P.S., 44 Norman Road, Northfield. Birmingham.

DEATHS

ANDERSON. — At his home, 38 Gladstone Place, Aberdeen, recently, Mr. David Anderson, M.P.S. Mr. Anderson qualified in 1893. A native of Perth, he was the proprietor of a pharmacy at Fountainhall Road, Aberdeen, which he founded in 1898. He is survived by his widow.

BOSWORTH, — On February 20, Mr. Stewart McGregor Bosworth; M.P.S., 103 Leicester Road, Bedworth, nr. Nuneaton, Warwicks, aged seventy-one.

BRANCH.—On February 10, at the Weymouth and District Hospital, Mr. Thomas Arthur Branch, M.P.S., 1 St. Mary Street, Weymouth, Dorset. Mr. Branch qualified in 1933.

BUTTERFIELD. — On January 31, Mr. Harıy Butterfield, 7 Bathurst Street, Blackburn, Lancs, aged eightyone. Mr. Butterfield qualified as a chemist and druggist in 1900.

COCKING. — On February 20, Mr. Harold Holland Cocking, M.P.S., 9 The Quadrant, Hendon, London, N.W.4, aged seventy-six. Mr. Cocking is survived by a son, Mr. H. A. Cocking, M.P.S., Pinner, Middlesex.

GRICE. — Recently, Mr. William Charles Grice, M.P.S., 44 High Street, Nantwich, Ches, aged seventy-five. Mr. Grice succeeded to his family's century-old pharmacy in Nantwich in 1910 after studying pharmacy in Edinburgh.

IENNENS. — On February 13, Mr. John Harry Jennens, M.P.S., Lyncot, Longridge Road, Malvern, Worcs, aged seventy-two.

KERR.—At Mercer's Hospital, Dublin, on February 20, Mr. John Valentine Kerr, L.P.S.I., 12 Newlands Drive, Clondalkin, co. Dublin. Mr. Kerr qualified in 1911.

MILNE.—At a Brechin hospital, recently, Mr. David Milne, C.I.E., aged seventy-eight. One of India's leading botanists, Mr. Milne entered the Indian Agricultural Services as economic

botanist in 1907 and in 1921 became principal of the Agricultural College at Lyallpur. Punjab. In 1923 he became dean of the faculty of agriculture in Punjab University, Lahore.

PHILIP.—On January 23, Mr. William Philip, M.P.S., 78 Marsden Road, Harton, South Shields, co. Durham, and formerly 42 Vespasian Avenue, South Shields, aged fifty-five.

RANDERIA.—On February 4, Mr. Shri Maganlal Randeria, Surat, Bombay, India, of Kanchanlal Maganlal & Co., chemists and druggists, Bombay.

SIGRIST. — On December 22, Mr. Reginald Harry Sigrist, M.P.S., 56 High Street, Hanham, Bristol, Glos. Mr. Sigrist qualified in 1923.

SIMPSON.—On December 31, Mr. Alexander George Simpson, M.P.S., 33 Harrowden Road, Doncaster, Yorks, aged seventy-five.

TRUSSLER.—On February 4, Mr. Frank Arthur Trussler, M.P.S., 27 Heatherdeane Road, Highfield, Southampton, Hants. Mr. Trussler qualified in 1924.

WILSON. — On February 17, Mr. Edwin Oswald Wilson, F.P.S., Jessfield. Honiton Road, Exeter, Devon. Mr. Wilson was, until recently, chief analyst to the Shanghai municipal council health department. Mr. Wilson qualified in 1904 and passed the Pharmaceutical Chemist examination in 1905.

PERSONALITIES

DR. H. J. BARBER has been appointed chairman of the fine chemicals group of the Society of Chemical Industry for the 1954-55 session.

MR. GEOFFREY M. KEOGH, M.P.S.I., Killorney, Roscommon, has been appointed a compounder of medicines by the Roscommon county council.

MR. ALFRED WILD (representative, James Townsend & Sons, Ltd., Exeter) will be delayed in making his regular visits, owing to a serious illness and long convalescence.

MR. G. B. WRIGHT, M.P.S., Ilkley, Yorks, who was in business as a chemist in Hebden Bridge, Yorks, for over fifty years, celebrated his eightyfourth birthday on March 1.

MR. W. BROWNBILL, M.P.S., Accrington, Lancs, has been appointed to represent Accrington town council on the committee of local authorities set up to help the Hallé and Liverpool Philharmonic Orchestras.

MR. J. D. KENDALL, Ph.D., F.R.I.C., F.R.P.S. (director of the organic laboratories, Ilford, Ltd.), has been awarded the silver medal of the Austrian Photographic Society for outstanding work in the field of photochemistry.

MR. C. E. WRANGHAM who has been appointed a part-time member of the Monopolies Commission has been a director of C. Tennant Sons & Co., Ltd., since 1938, and controls the chemical and general export departments of the company.

MR. E. W. PARSONS (sales executive in the home division of Burroughs Wellcome & Co.) retired on February 26 after thirty-four-and-a-half years' service with the company. Mr. Parsons received a grandmother clock from his colleagues, the presentation being made by Mr. C. G. Oakes (joint managing director, Wellcome Foundation, Ltd.).

MR. GEORGE WHEELER (chief accountant, S. Maw, Son & Sons, Ltd., Barnet, Herts), retired on February 26 after nearly fifty-two years with the company. He was presented with a clock and cheque by his colleagues and entertained to lunch by the directors. He was the sixty-second employee to add his name to the company's long-service roll of honour.

MR. F. HURTLEY (founder and managing director of Fred Hurtley, Ltd., Keighley, manufacturers of Litesome appliances), has accepted an invitation to join the board of Keighley rugby league club. Mr. Hurtley is a member of the Keighley rotary club and is keenly interested in church work, having been a churchwarden for more than ten years.

LORD TRENT, Hambleton Hall, nr. Oakham, Rutland, who resigned from the chairmanship of Boots Pure Drug Co., Ltd., on medical advice in January (see C. & D., January 2, p. 5), received the insignia of Knight Commander of the British Empire from Queen Elizabeth, the Queen Mother, at an investiture at Buckingham Palace, London, recently.

MR. NORMAN M. WILL, who retired in 1953 after having been general sales manager of Ever-Ready Razor Products, Ltd.. for nearly thirty years, recently returned to Britain after a two-month tour of France, Belgium and Germany. In Northern France he visited places in which he served with the British Expeditionary Force during the 1914-18 war. He was delighted to find a number of old friends remaining in Amiens.

INQUESTS

"Tasting" a Liniment.—At an inquest at Manchester on January 26, a verdict of accidental death was returned on John Marsh, unemployed labourer, Chorlton-on-Medlock, who "tasted" a bottle for a friend. There were two bottles on a table, one of which contained liniment and the other cough mixture. Marsh collapsed and died later.

Tablets from Many Doctors.—At a resumed inquest at Stockton Heath on February 12, on Mrs. Beatrice Hill, Newlands Road, Grappenhall, nr. Warrington, who was found dead in bed at home on January 15, it was revealed that she died from an overdose of sleeping tablets. The husband told the coroner that his wife had obtained large numbers of sleeping tablets unknown to him from many doctors by going as a private patient under assumed names. The coroner recorded an open verdict that the woman died of barbiturate poisoning, there being insufficient evidence to show how she came to take the tablets.

CONTROL OF BARBITURATES IN EIRE

New Statutory Regulations

THE Minister for Health in Dublin has made Statutory Regulations which bring the sale and distribution of barbiturates under rigid control, and makes them Part I instead of Part II preparations.

The operative article of the regulations, which are entitled the Medical Preparations (Barbiturates) Regulations, 1954, is Article 4, which says:

(1). A pharmaceutical chemist or a dispensing chemist and druggist shall not sell a controlled preparation [meaning barbituric acid any derivative of barbituric acid, any salt of barbituric acid or of a derivative of barbituric acid] by retail except in the dispensing, in accordance with its terms, of a medicat prescription, a dental prescription, or a veterinary prescription.

(2). A registered druggist shall not sell a controlled preparation by retail except in the dispensing, in accordance with its terms, of a veterinary prescription.

[Each prescription must be dated and signed by and bear the address of the prescriber and the name and address of the person to whom it is issued.]

(3). A pharmaceutical chemist or dispensing chemist and druggist who has completed the dispensing of a medical prescription, a dental prescription or a veterinary prescription, or a registered druggist who has completed the dispensing of a veterinary prescription shall forthwith write prominently on the prescription the word "dispensed" and the date on which it was dispensed, shall retain the prescription in his possession for at least two years and shall then destroy it.

(4) A pharmaceutical chemist or dispensed.

(4). A pharmaceutical chemist or dispening chemist and druggist who has dispensed in part a medical prescription, a dental prescription or a veterinary prescription of a registered druggist who has dispensed in part a veterinary prescription shall forthwith record on the prescription the amount of each quantity of the controlled preparation supplied by him on foot of the prescription and the date on which he supplied each such quantity.

(5) A pharmaceutical chemist or dispensing chemist and druggist shall make

(5) A pharmaceutical chemist of dispensing chemist and druggist shall make available any medical prescriptions, dental prescriptions or veterinary prescriptions and a registered druggist shall make available any prescriptions in his possession for inspection by authorised officers of the Minister and by inspectors of the Pharmaceutical Society of Ireland.

Article 5 says: Nothing in these Regulations shall affect (a) the supply of a controlled preparation by a registered medical practitioner to a person under his care, (b) the supply, for dental purposes, of a controlled preparation by a registered dentist to a person under his care, (c) the supply for veterinary purposes of a controlled preparation by a registered veterinary surgeon.

The number of times a prescription can be dispensed is governed by Article 2, Section 2 of which says:

Where neither the number of occasions on which, nor the intervals at which, the controlled preparation may be supplied are mentioned in a prescription, the prescription shall be deemed to be a prescription for the supply of a specific quantity of the controlled preparation on one occasion.

Section 3 says: Where the number of occasions on which the controlled preparation may be supplied is specified in a medical prescription or a veterinary prescription but the intervals at which it may be supplied are not so specified, such intervals (not being less than three days) as the person dispensing the prescription thinks proper shall be deemed to be specified in the prescription.

And Section 4 says:

Where the intervals at which controlled preparations may be supplied are specified in a medical prescription or veterinary prescription but the number of occasions or which it may be supplied are not so specified, three occasions shall be deemed to be specified in the prescription.

Artiele 3 says:

Article 4 of these Regulations shall not apply to (a) the sale of a controlled preparation to (i) a pharmaceutical chemist, a dispensing chemist and druggist or a registered druggist; (ii) a hospital or

similar institution on a written order signed by a registered medical practitioner, pharmaceutical chemist or dispensing chemist and druggist employed in the institution; (iii) an authority which is a local authority for the purpose of the Local Government Act, 1941; (iv) the Medical Research Council of Ireland, the Veterinary College of Ireland or the Veterinary Research Labo.atory of the Department of Agriculture; (v) a registered medical practitioner, a registered dentist or a registered veterinary surgeon; or (vi) any person authorised in that behalf by the Minister for Health; (b) the sale for veterinary use of a mixture containing a controlled preparation where (i) the mixture is designed solely for veterinary use and (ii) the words "not for human use" are distinctly written on the container in which the mixture is sold or on a label affixed thereto.

STORAGE OF PENICILLIN TABLETS

Dr. Davis Speaks at Birmingham

AT a meeting of the Birmingham Pharmaceutical Association held on February 9 Dr. H. Davis (chief pharmacist, Ministry of Health) gave an address on "Health Service Topics."

DR. DAVIS referred to the recent reon penicillin oral tablets (C, & D., 1953, II. 605). Following receipt of Mr. Bagnall's report, his department had ealted a meeting of the leading manufacturers of penicillin tablets and had asked them for information on the had asked them for information on the keeping properties of the tablets. The manufacturers had willingly co-operated and had provided some invaluable details of their routine tests. Their results showed that provided eare was taken to keep down the initial mois-ture content, the tablets were relatively stable when stored under reasonable conditions. He then presented figures showing that, under similar conditions of packing, sealing and storage, loss of potency was highest where the initial moisture content was 3.9 per cent. or higher. It was important to keep the initial moisture content as low as possible: special production measures and analytical control were necessary to ensure that. Any suggestion that penicillin tablets were too delicate for use in bulk containers was contrary to the facts. One manufacturer emphasised the value of labelling containers with storage directions and instructions to reclose securely after using.

For comparison with manufacturers' results and conclusions, Dr. Davis stated that the American Code of Federal Regulations on Food and Drugs allowed a shelf life of thirty-six months for benzylpenicillin oral tablets having a moisture content of not more than 1 per cent. provided they were stored in a foil or plastic film, or in a tight container as defined by the United States Pharmacopæia.

In conclusion, the speaker said that, taken collectively, the manufacturers' results seemed to show that there was no significant loss of potency in oral penicillin tablets stored in a cool, dry place for 1½ years, and probably

longer, provided the initial moisture content was low (probably below 1 per cent.). There seemed to be no objection to the use of bulk containers provided the contents were used within the currency period shown by the experiments, the stopper was tightly replaced, and storage was in a cool, dry place, but large bulk containers holding 250 or more tablets were unsuitable.

Earlier in the evening the speaker had given a preliminary statement on the relationship between the administration and technical branches of the Ministry of Health, had explained the work of the Cohen committee, and dealt with the classification of proprietary preparations. He had drawn attention to the necessity for pharmacists to extend their knowledge of the drugs they handled. The Ministry, he said, had accepted the metric system and had incorporated the change in the Drug Tariff. Surely it was not too much to hope that retail pharmacists should accept it.

CONTROL BY COUNCIL "Apathy the Cause," says Mr. Dowty

SPEAKING at a meeting of the Neweastle and Northumberland Branch of the Pharmaeeutical Society on February 4, Mr. J. M. Dowty (a member of the Society's Council) stated that the Soeiety's Council was subject to the control of its members, and if at times it appeared that the Council controlled the members, it was largely due to their apathy and laek of interest. He urged branches who felt strongly against some Council proposals to send large delegations to vote against them. He believed in territorial representation but when he or other members had raised that question it had been defeated by the members. The Council had proposed regional grouping of branches, but although in Southampton those groups were functioning well, no interest had been shown in most other parts of the country, and until regional groups were well established, territorial representation would be of no value, nor would it be achieved. He had consistently advocated that the sale or dispensing of all drugs should be restricted to pharmacists. That objective would be more difficult to attain now than fifty years ago, but with the backing of the members it could be achieved. On branch conferences, Mr. Dowty stated that many resolutions sent in from branches were trivial. The Society's Council was attempting to

get pharmacy exempted from the Food and Drugs Act, and pharmacists could help by making sure that their shops reflected the dignity of their calling.

reflected the dignity of their calling.

It was his opinion that a restriction on the opening of pharmacies should be instituted, and he advocated the policy of making it compulsory for two pharmacists to be in charge of each pharmacy. That, he said, would make for more adequate control and would solve the problem of locums.

cerned with the company's own ethical medical specialities. Here again there has been a drastic rationalisation of the range of products handled. Only those in line with modern requirements have been retained, and these either have been or are being repackaged in new, attractive, distinctive and uniform style. Procidets throat lozenges are the first to re-emerge. These already well-established lozenges, presenting sodium propionate and benzocaine, now appear in a black, white and gold carton, with their title in white on a black oval that will become a characteristic "house style." Similarly, Nadrol chloroxyle-nol-type antiseptic is the former Nadre-nol streamlined in name and presenta-

Stagg's manufacturing activity is con-

"MANUFACTURING ONLY" NOW

A reorientation of policy by Harker Stagg, Ltd.

THE 134-year-old drug wholesaling business of Harker Stagg, Ltd., Emmott Street, London, E.1, has been undergoing a fundamental overhaul that imparts a new direction and relationship with the industry. No longer does the company engage in the distribution to chemists of some four thousand items—galenicals, proprietaries and sundries. From now on the business will be exclusively engaged in manufacture, with the number of products reduced to 150. All direct relationships with individual retail customers have been brought to an end, and the company's products now go from the factory to wholesalers.

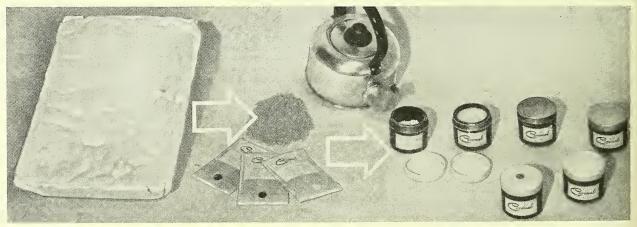
Under its new policy the company's manufacturing activities are of two kinds: On the one hand there is the manufacture of galenicals—not the whole range, but a carefully selected

list of products, in whose manufacture Messrs. Harker Stagg have special "know-how" or economic advantage to count on in securing a premier position for supplying the demands of the market. The galenicals are prepared under strict control at every stage, from the disintegration of the vegetable raw material to the extraction and bottling. Concentration on fewer items naturally makes possible a simplification of works layout and an improved method of handling. For example, one floor is given over to manufacture and another to percolation. The products are then piped over to a battery of storage vessels in another room. From the storage vessels they are filled into carboys or winchesters and wheeled away to racks in a third room for drawing on as required for filling wholesalers' orders. The other side to Messrs. Harker

With both galenicals and specialities, the directors of Harker Stagg, Ltd., are confident that improved methods will bring greatly increased sales, which will in turn permit manufacture on a still larger scale, with even greater advantage to manufacturer, distributor and consumer. In so important a break from long-established trading policy, it is inevitable that many retail customers of many years' standing will have felt a pang of regret at severing a time-honoured connection. The company wishes it to be known that their goodwill has at all times been very greatly valued. Messrs. Harker Stagg express confidence that their products will continue to enjoy the wide acceptance in the medical and pharmaceutical worlds.

DEHYDRATED COSMETIC CREAMS

An export development adapted for domestic consumers



RECENTLY, Continental Trade Consultants, Ltd., 406 Euston Road, London, N.W.1, developed for export markets a range of cosmetic creams sent out as solid "dehydrated" blocks and thereby effecting a considerable saving in freight and duty costs. In the country of destination the importing retailer granulates the base and converts it into a cosmetic cream simply by stirring with the correct quantity of boiling water. As an article of export the slab has the additional advantage that it requires processing in the receiving country, and can therefore enter many markets not open to completed consumer products. The

overseas buyer likes them, too, because he can present them in his own way and under his own label.

The makers have worked out a plan for marketing the dehydrated creams in this country. Under the trade mark Coronal they are marketing a scries of creams (cleansing, skin, astringent, foundation and night) in black glass jars distinguished by plastic caps in special colour or marking. The woman who buys the cream may, when the jar is empty, buy at less than half the cost of a new jar a packet containing the requisite quantity of granu'es for a refill. She empties the granules into the jar, preferably after warming it,

adds boiling water to near the top, and stirs. In a few moments the cream thickens and when cool is ready for use. It should be added that the jars have been selected to withstand boiling water. The illustration above shows the standard export slab of base (sufficient for 500 jars), the granules, loose and packeted, the jar with granules ready for addition of boiling water, and the range of five creams. The granules are perfumed with the company's own Consul perfume, which, with Consul skin tonic and face powder (in four tints) completes a range of cosmetic preparations covering ordinary requirements.

TRADE NOTES

Display Outer. — Pharmax, Ltd., Organ Works, Old Hill, Chislehurst, Kent, have produced a display outer for their Ralgex analgesic to link with Press advertising.

Two-pack Crowner.—Keen, Robinson & Co., Ltd., Carrow Works, Nor-



wich, have produced the crowner illustrated for their Robrex and ready-cooked groats, or for two packs of either product displayed separately.

Bonus Offer Ends. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, state that the bonus offers of thirteen to the doz. 1-lb. tins of Crookes glucose B.D., and 4-oz. bottles of Pedaform were withdrawn on March 1.

Deodorant Tablets in Counter Display. — Heath & Heather, Ltd., St. Albans, Herts, are offering a free counter display carton with 1 doz. No. 200 chlorophyll deodorant tablets (thirty-five tablets per tube). The product is being backed by a nation-wide distribution of literature.

Prescribable on EC10's.—Bayer Products, Ltd., Africa House, Kingsway, London. W.C.2, point out that, when ferrous gluconate tablets are prescribed as such, Fergon tablets may be dispensed (i.e., Fergon may be supplied on prescription either under its own name or under the non-proprietary designation ferrous gluconate).

Low-priced Deodorant.—Dor, a new cream deodorant issued in a lilac-coloured tin containing one month's supply, is claimed by the makers, F. W. Hampshire & Co., Ltd., Sunnydale, Derby, to be the lowest-priced product of its kind on the market. Dor is nongreasy and does not stain the clothes. Distribution begins in April, and a Press advertising campaign is due to commence in May.

Discounts Not Cancelled. — The "beat-the-Budget" extra discounts announced by Delavelle (G.B.), Ltd., 38 Orsman Road, London, N.1, on Creamoil and Go stick deodorant, remain in operation until April 5, despite the Chancellor's announcement that the Budget would include no purchase tax changes. Both are available at a bonus rate of twelve for the price of eleven: Creamoil on a minimum order of 2 doz. large size or 4 doz. small; and Go stick deodorant on a minimum order of 1 doz. either size.

Veterinary Procaine Penicillin. — Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, point out that their veterinary procaine penicillin for intramammary injection conforms to the requirements for the intramammary injection of procaine penicillin G of the British Veterinary Codex. The company's product is issued in carton of twelve tubes.

Milk Proteins Demonstration. — A demonstration of protein precipitation from human and other milks was staged by Trufood, Ltd., Green Bank, London, E.1, at the Royal College of Nursing, London, W.1, on February 18. It showed the effect the type of protein has upon the physical characteristics of milks, and in particular that the provision in an infant food of a protein content similar in character and quantity to that of human milk produces, when acidified, the same flocculent precipitate as that from human milk. San.ples of the milks under test (cows', dried, human, and humanised Trufood) were maintained at the same temperature in glass vacuum tubes.

Through a glass U-tube equal amounts of dilute acid solution were run into the tubes, the milk meanwhile being mechanically stirred. When the proteins had been completely precipitated the tubes were removed from the apparatus and the filtrate strained off and the curds compared. The demonstration showed in the human milk and in Trufood a similar flocculent precipitate in contrast to the harder curds formed by cows' and unmodified dried milks. The contents of the four milks were compared in the following table—

	Cows' milk	Dried milk	Human milk	Human- ised Trufood
	%	%	%	0/0
Fat	3.7	3.7	3.4	3.4
Carbo- hydrate				
(lactose)	4·7 3·4	4.7	6.9	6.3
Protein	3.4	3.4	1.3	1.8

and it was pointed out that humanised Trufood is standardised to contain 600 international units of vitamin A and 320 i.u. of vitamin D per oz. of powder.

NEW PRODUCTS AND PACKS



First-aid Dressing Cabinet. — The cabinct No. 2 of elastic first-aid dressings offered by Dalmas, Ltd., Junior Street, Leicester, for the small factory. shop or home, contains 7 doz. elastic adhesive dressings: thirty-six $1\frac{1}{2}$ x $\frac{3}{4}$ in.; thirty 3 x $\frac{3}{4}$ in.; six each $1\frac{1}{2}$ x 2 in. and 2 x 3 in.; and six finger dressings, $7\frac{1}{2}$ x 1 in.

"Advanced Design" Hearing Aid.—The Transitron miniature hearing-aid designed and produced by Bonochord, Ltd., 48 Welbeck Street, London, W.I. makes of germanium-junction transistors, one of the latest developments of electronic research. Three junction-type transistors are incorporated, eliminating the need for a high-tension battery. Power is provided by one, two, or three tiny mercury cells, or by a single mercury pen-cell. Amplification and output characteristics vary with the combined voltage of the number of cells in use, thus enabling the Transitron to cover a wide range of hearing requirements, from those mildly handicapped to the severely deaf. The maximum air-to-air gain is over 70 decibels. Battery costs are less than one-tenth the running cost of a three-valve aid. The aid is housed in

a polished, stainless-steel case, with one-piece back and front. The overall size is $3\frac{1}{4} \times 2\frac{1}{4} \times \frac{7}{8}$ in., and the total weight with battery, $4\frac{3}{4}$ oz. The Transitron hearing-aid is sold by the manufacturers in the United Kingdom with a twelve-months' free service and replacement guarantee.



FIGURES IN THE PHARMACEUTICAL WORLD

FEW British pharmacists have had the opportunity to influence in any the opportunity to influence in any major way the counsels of their colleagues in other countries. Outstanding among those few is Dr. C. H. Hampshire, C.M.G., M.B., B.S. (Lond.), M.R.C.S., L.R.C.P., B.Sc. (Lond.), F.P.S., F.R.I.C., chairman of the World Health Organisation's Expert Committee on the Unification of Pharmaconesies. In that canacity Dr. Hamps macopæias. In that capacity, Dr. Hampshire has been the leader of an enthusiastic band of workers and has exercised the principal responsibility for producing an International Pharmacopæia where none previously existed. More even than that, it was to him largely that the actual work of com-

pilation and authorship fell.

To try to find the seeds of Dr. Hampshire's mature eminence in his early circumstances is to come away slightly baffled. He served an uneventful apprenticeship in a good-class pharmacy in the well-to-do residential township of Iikley, Yorks. The setting of that inland spa, beside the swirling river Wharfe and below the moor famous in song is of a kind that would persuade song, is of a kind that would persuade many people to look no further for contentment. The young Hampshire had his eye on wider, more distant horizons. From early days his interest was in science, and his ambition to become a doctor. To those ends, with the passive consent rather than the active co-operation of his apprentice-master, he was making in the shop as many of he was making in the shop as many of the preparations of the pharmacopæia as he could, or—at home—doing chemical analyses and bringing on himself the wrath of his family for preparing H₂S in the basement, or out in the countryside collecting material for a herbarium. In those days his constant companion was White and Humphreys' Pharmacopæia. It was, in fact, his own intense scientific curiosity and ambition, rather than any external stimulus, that spuried him on.

Single-minded pursuit of his objective earned for him in 1905 a Jacob Bell scholarship and took him to London to become a student at the Pharmaceutical Society's school. In two years he had passed the Pharmaceutical Chemist examination and was on the

Chemist examination and was on the school's teaching staff.

From that point the steps in his pharmaceutical progress are seen in retrospect as almost a prescribed novitiate for his eventual offices. While teaching he pursued his studies at London University to take a science degree in chemistry, with first-class Honours. The degree gained, he took up the appointment in 1914 of chief up the appointment in 1914 of chief pharmacist to University College Hospital, London. There, after becoming a Fellow of the Royal Institute of Chemistry, he studied medicine and gained mistry, he studied medicine and gained University of London degrees in medicine and surgery, as well as the diplomas of the Royal Colleges. The cumulative advantage of his blended pharmaccutical, chemical and medical experience were an obvious equipment for the poet of accretary to the poet. for the post of secretary to the newly formed first British Pharmacopæia Commission, and he was appointed to



Dr. C. H. HAMPSHIRE 15.

that post in 1929. Holding the office until 1950, he had an especial influence on the Pharmacopæia of 1932, the first to be prepared under the new system, and that of 1948, delayed on account of the war. During the war, he also acted as secretary to the Medical Research Council's committee on drug

From 1928 Dr. Hampshire has been editor, first of the Quarterly Journal of Pharmacy and Pharmacology, and subsequently of its monthly successor. With his secretaryship of the Pharmacopæia Commission and his close association with the creation of the Inter-national Pharmacopæia, his editorship of that journal is one of the three things in which Dr. Hampshire may take special (and justifiable) pride in his career. Other steps in his progress would be noted by an observer. He has been an examiner for the Pharmaceutical Society, with the periodic retirements under the rotatory system in operation, since 1915, and thus for nearly forty years has had close contact with the development of pharmaceutical education. ccutical cducation. He has been also an examiner for London University and for the Royal Institute of Chemistry. He has written and presented numerous papers, chiefly on pharma-ceutical chemistry. His secretaryship of ceutical chemistry. His secretaryship of the British Pharmaceutical Conference from 1919 to 1929 was followed in 1933 and 1934 by two years as its chai man. As the subject for one of the addresses he was called upon to give as chairman, he chose "National and In-ternational Pharmacopæias." The choice seems now prophetic. No doubt his informed and important contribution to thought on that subject was noted and thought on that subject was noted and

remembered by someone in authority when, in 1937, the League of Nations meeded a chairman for its Committee on Pharmacopæias (afterwards the W.H.O. Expert Committee on the Unification of Pharmacopæias). Dr. Hampling and the Committee on the Unification of Pharmacopæias). shire was invited to accept the appointment, and his hand prepared the Interim Report, issued in May 1945, from which subsequent progress to publication of a phalmacopæia may be said to have derived. The Ph. I., Volume I, came out, as all the world knows, in 1951. It may be early days to consider what degree of acceptance it has achieved, but none can deny its importance as a milestone on the difficult road to international understanding. Even the hostility the Pharmacopœia has evoked in some powerful quarters may indicate success.

In 1949, his own country acknowledged Dr. Hampshire's contribution to the work by c eating him a Companion of the Most Distinguished Order of St. Michael and St. George. He remains chairman of the International Committee, an office to which he was appointed

in the early days by the Directorate, but which is now filled at each meeting by election from the members pre-On twelve successive occasions Dr. Hampshire has been unanimously voted to the chair. Already an immense amount of work has been done by the Committee on Volume II and on revision for the next edition. Whatever the future holds in store, he will go down to history as the prime architect of the first, and British pharmacy can rejoice in the lustre he has brought to his profession and country.

"PUNCHED-CARD" PRICING

How it works in Northern Ireland

PUNCHED-CARD methods of pricing prescriptions are now operating smoothly in Northern Ireland after less than one year's trial. One month's prescriptions are priced in full within a month.

The system was introduced in the pricing bureau of the Northern Ireland Health Board in March 1953. Its primary purpose was to enable the Board to do away with "averaging." The profession, of course, wanted full pricing, and the Board looked to it to provide a basis of arriving at the prescribing costs of individual doctors.

In the early stages the difficulties of day-to-day working inevitable in any untried system were encountered. Nor was any gradual transition from the old to the new system found practicable. Most of the difficulties, however,

have now been surmounted.

Full Co-operation from Chemists

Only by the chemists' ready and full co-operation at all stages was such or pricing in Northern Ireland made possible. In consultation with the profession, a system of coding was prepared whereby each preparation and appliance in common use was allested. appliance in common use was allotted a number not exceeding four figures, to be followed by figures indicating the quantity. All chemists have a copy of the code. They mark against each item on prescription forms the appropriate code number. For example, a prescription for 36 tab. codein. co. is coded 44/36, the figure of 44 representing the code number allotted to tab. codein. co. and 36 the code for 36 tablets. Some chemists have simplified coding by marking stock bottles with the related code numbers or in-Formulary. About 85 per cent, of prescriptions are covered by the code. The remainder are marked distinctively by the chemist to indicate that no code number has been allotted. Uncoded items are still priced manually as before. Chemists now forward their prescription forms to the bureau at the end of each month sorted into the following groups:

(i) forms completely coded; (ii) forms partly coded;

(iii) forms uncoded;

(iv) urgent prescriptions; (v) maternity service prescriptions; and

(vi) doctors' stock orders. The sorting is thus simple, as it bears no relation to value.

When the Board receives a package of prescription forms from a chemist, the number of forms is checked and the bundle passed to the code checkers, who check a substantial percentage of code numbers inserted chemists and pass to pricers for the pricing of uncoded prescriptions by traditional methods. The forms are then passed to punch operators. The Hollerith 38 column card is used. For the system in operation the card is given horizontal divisions corresponding to the numbers 0 to 11, and divided vertically into columns representing:

(i) code number of chemist; (ii) code number of doctor;

(iii) code number of prescription;

(iv) quantity code;

(v) form number allotted by chemist for identification;

(vi) dispensing fee in shillings and pence; and

(vii) ingredient cost in pounds, shillings and pence.

The headings are repeated to allow for the punching of a second prescription on the one card. The punch operator inserts a detail card into a punching machine, which punches holes from the figures on coded prescriptions into columns (i) to (v) and from uncoded prescriptions into columns (i), (ii), (v), (vi) and (vii). The prescription forms and punched detail cards pass to the werifying operator, who, with a machine called a verifier, checks that the punching is correct. When an error is discovered, the card is withdrawn and repunched.

Pricing Odd Quantities

The punched cards are then passed to the sorters-machines that work at high speed to sort the cards into any desired order. At this stage all cards bearing the same prescription code number and the same quantity code number are brought together. A machine known as a collator now introduces master cards: cards prepared for each quantity of each prescription code with the dispensing fee and current net ingredient cost punched in the respective columns. The master cards and the sorted detail cards are inserted into separate pockets in the collator, which automatically arranges a master card in front of each set of detail cards. For example, the master card for 36 tab. codein. co. is placed in front of all detail cards for that quantity of tab, codein. co. Master cards for which there are no detail

cards in a particular "run" are rejected, as also are detail cards for which there are no master cards. latter would occur, for instance, where a detail card represents an odd quantity not included in the quantity code. Odd quantities are, in fact, probably the greatest source of difficulty in the system at present.

The cards collated into groups behind their master cards then pass to gang punching machines which automatically punch into each detail card the dispensing fee and ingredient cost indicated on the relevant master card. The machines work continuously, automatically altering their punching positions as each new master card is encountered. All cards now go again to the sorters, which arrange the detail cards in chemist order in accordance with chemists' code numbers punched in the cards, and throw out the master cards for further use.

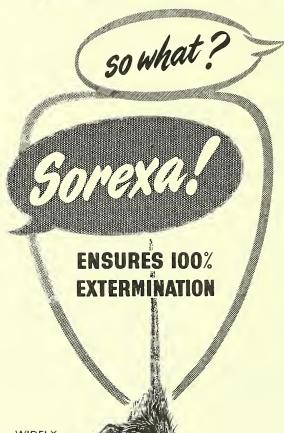
The final operation is the preparation of the chemists' accounts for payment. In Northern Ireland, each chemist is supplied with a schedule showing the value of each prescription for which he is paid. The detail cards are fed to a tabulator, which prints on paper from the punched holes the dispensing fee, net ingredient cost, and any serial number used by the chemist for identification purposes. The machine also counts and prints the number of prescriptions on a schedule as well as the total dispensing fees and net ingredient costs due to the chemist. It only remains now to add 25 per cent. oncost and container fees based on the total number of prescriptions and to pass the schedules to accounts branch for payment. After payment, the detail cards can be resorted into doctor order and the cost of individual doctors' prescribing found by the use of the tabulator.

N.H.S. STATISTICS

In ENGLAND during April 1953 the number of prescriptions issued was 16,095,321 (9,322,074 forms). The total cost of ingredients, fees and containers during the month was £3,374,904.

In ENGLAND and WALES in 1953, the average cost per week of maintaining an in-patient in a general, non-teaching hospital was £15 4s. 9d.; maternity hospital, £17 13s. 1d.; mental hospital, £4 18s. 6d.; tuberculosis hospital, £9 19s. 5d.; teaching hospital (London), £24 18s. 6d. (provinces), £18 13s. 9d.





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Cost per Prescriber

THE scheme that has been drawn up by the Department of Health for Scotland for keeping N.H.S. doctors informed of their prescribing costs (p. 225) is a development of major importance. It should bring nearer the control of cost of the pharmaceutical services on a rational basis instead of giving rise to the arbitrary cuts in chemists' remuneration that have been the lot of contractors hitherto.

Under the Scottish scheme, doctors' average costs per prescription and per patient are being subjected to a close periodical scrutiny. All those contractors who have long been aware of examples of what they can only regard as irresponsible prescribing, but who have realised the futility of trying to bring them home to any doctor after the inordinately long, though now fast decreasing, time lags that have occurred in pricing prescriptions since N.H.S. came in, will recognise that the new scheme makes a move in the right direction. Even under the new plans, the delay between arrival of the prescription at the pricing office and the questioning of the prescriber may be upwards of five months, and that is still too great to provide the real safeguard that chemists and the public have a right to expect. Only full pricing can do that, and it is not the least hopeful aspect of the punched-card system of prescription pricing now successfully working in Northern Ireland (see p. 237) that it has already made possible full pricing of a month's prescriptions within one month.

Of course there are dangers in any focusing of prescribers' thoughts on considerations of cost. The principal danger is that the prescriber will come to place cheapness before efficacy as the most important factor in treating a patient. In Scotland there is an automatic safeguard against that danger, because a prescriber's costs will only be investigated if they are above the local average, and then only by the Local Medical Committee. What the medical profession locally considers fair and wise prescribing will therefore be the yardstick by which individual prescribers are measured.

In England and Wales, if a similar system were to be set in operation there, it has to be borne in mind that it is in all probability the Minister of Health who takes the initiative in inquiring into alleged excessive prescribing. The risk of cheapening the medical services to patients would therefore appear to be much greater in England and Wales than in Scotland, although it is satisfactory, so far as it goes, that the medical profession recently asked for and secured from the Minister of Health (C. & D., January 16, p. 59) an assurance

that prescriptions will only be referred back for investigation when the doctor's prescribing costs are "substantially" above the average for the area.

Another point that should not be overlooked by chemists and their representatives is that the compilation of statistics on prescribing costs is bound to divert some of the energies of the pricing bureaux from their normal pricing activities, with risk of further delays in settling accounts.

Transport Changes

CERTAIN recent developments in transport facilities should be noted and watched. For example, it is proposed to make permanent, as from March 1, a method of invoicing adopted experimentally on January 1 for consignments of up to 1 ton in weight forwarded through normal goods stations. As a result, it may become impossible for traders to obtain information about consignments of goods in transit to them.

Most pharmaceutical concerns are aware that the railways have long had a special method of internal invoicing, the main feature of which has been that the document passed from the sending station to the receiving station. The invoice contained information regarding the consignment and, to a certain extent, represented a history of the transit. Among details shown on the invoice were the sending and forwarding stations, the route over which the goods were to travel, consignment note number, sender's name, consignee's name and address, number of packages, description of the merchandise, and weight of consignment. The railways used the invoice as a document for compiling delivery sheets at the receiving station. For under-one-ton consignments the method is, as already stated, discontinued. With its abandonment comes the possibility that consignments may become lost or delayed with risk of extreme difficulty of tracing them. On the other hand, it is not proposed to abandon the collection of extraneous charges, such as out-of-boundary charges.

It should also be noted that a very different type of competition may soon be operating in road transport. Already public vehicles have been offered to tender and tenders accepted by the Road Haulage Disposal Board. That means that new operators are now functioning. The transport units that have so far been offered to tender are, in the main, small ones, but a vast number of units and vehicles are scheduled to be sold. Even with the sale of a large proportion of the Road Haulage Executive undertaking, however, there will remain a considerable fleet of vehicles to be operated by the British Transport Commission.

The fleet the Commission wishes to retain is to be divided into three main sections. The first is to consist of general haulage vehicles primarily engaged on trunk and regular services. In that category will be 2,350 vehicles, against the existing total of 20,000. The second section is of specialised vehicles (for furniture removals, carriage of liquid in bulk tanks, and of abnormal indivisible loads). That section is to be operated under the name of Pickfords. The Commission previously operated some 2,000 vehicles in that class; it is proposed to retain 1,200. The third section covers vehicles operated under contract for the exclusive use of traders. The number of that class retained is likely to be small. 3,600 vehicles that were engaged on par-

cels and "smalls" are being disposed of. Whether the direct competition between public owner and private owner works to the benefit of the consumer remains to be seen.

Certainly all transport is going to cost more. The Transport Act, 1953, provides for new schedules and maximum charges that will constitute an entirely new system of transport charging. The schedules will take some time to draw up, and in the meantime the British Transport Commission has asked for a 10 per cent. increase in railway and dock charges. The increase is already authorised by the Minister of Transport and operates from March 1. For merchandise by freight trains and for perishable traffic by passenger trains it is subject to a maximum of 10s. per ton.

Barbiturates Control in Eire

STATUTORY Regulations introduced in the Irish Republic for controlling the sale and distribution of barbiturates are given on p. 233.

Pharmacists should note that a prescription written prior to the introduction of the Regulations must be taken at its face value. A patient who has been in the habit of "repeating" a prescription for a controlled preparation may now obtain a supply on only one occasion (on the authority of the old prescription). A person dispensing for the last time a prescription written prior to February 23, 1954, should take the opportunity of informing the patient that a new prescription ("repeatable" at the discretion of the doctor) must be

procured if further supplies of the medicine are required.

While article 3(b) of the regulations does not prohibit the sale of a controlled preparation contained in a mixture designed solely for veterinary use, it must not be forgotten that the mixture is still a Part I poison, and must accordingly be labelled with the name and address of the (legally qualified) vendor, with the name of the poison and with the word "poison," in addition to the words "not for human use". The necessary entries in the Poisons Register for a Part I poison must also be made prior to completion of the sale. It should be noted, too, that the word "mixture" used here is a mixture in the literal or chemical sense and is not restricted to the pharmaceutical "mixture."

Article 4 (4) directs that the person who dispenses in part a (repeat) prescription shall at once record the amount of the controlled preparation supplied and the date on which it is dispensed. It is recommended that such endorsements should be made, if possible, on the back of the prescription, in such a manner that cutting them off would be an obvious defacement of the prescription.

Another point is that, under Article 2 (3), where the following words occur: "Such intervals (not being less than three days) as the person dispensing the prescription thinks proper," the dispenser is permitted to use his discretion in carrying out the wishes of the prescriber. For example, if twenty-five tablets are ordered, and the directions are "one t.i.d.," it would be reasonable for the patient to request a repeat after a week.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

BULK DRUGS IN METRIC

SIR,—At a recent "Any Questions" meeting a leading manufacturer is reported (C. & D., February 20, p. 181) to have said that the packing of bulk drugs and galenicals in metric quantities is a nuisance to the manufacturers. It is also a nuisance to the retailers. One has only to look at the C. & D. Diary price list—cost in metric, dispensing/retail price in Imperial—to see how inconvenient it is. The relationship between the two sides is obscure; also there are so many exceptions to metric buying. Because an event is bound to happen some time in the future it does not follow that it is imminent, nor is it necessarily wise to "get it over." For example, we shall all die, but timing is of considerable importance. If the country, or even the chemical industry, were changing to metric, the move would be sensible, but for a small unit like the pharmaceutical suppliers to push it was premature idealism. Now that the trial has run for nearly twelve months, a fair-minded appreciation of the result should be made, and a referendum taken of the people concerned—retail, wholesale and manufacturing—to decide the fate of the common nuisance.

STILL "CHEMISTS"

SIR,—One of the "pharmaceutical questions" whose answers at Catford, London, were reported in the C. & D. (February 20, p. 180), was "Will the name chemist become obsolete?" The answer was "There is no sign of it happening." It certainly will not happen. In the beginning the words "chemist and druggist" simply meant a seller of chemicals and drugs, and in my apprentice days of sixty years ago that was just what we were. The country wife bought her household medicines and her husband his stock medicines in bulk from the chemist. The business has radically changed since then, but the name has not. The attempt to alter it, whether to pharmaceutical chemist or to pharmacist, has fallen flat. Both are awkward words that the public cannot either spell or pronounce, and so plain

chemist is still the most used title, and will be for many years to come. There is no branch of human knowledge and activity of which the public is so completely and abysmally ignorant as the nature and composition of medicine. It is all "chemistry" to them. Ph.C., M.P.S., F.P.S., etc., are neither understood nor valued by the public, and with the "ten a penny" value of countless similar collections of labels today I sometimes wonder myself whether the letters we are entitled to use are really of much value to ourselves.

PEWSEY, WILTS

MARTIN P. WALKER

PIPERAZINE IN THREADWORM TREATMENT

SIR,—That there are misunderstandings as to the effects of applying piperazine in human medicine is evidenced by a letter from Professor T. Gordonoff in the *British Medical Journal*, February 13 (p. 394). A reply by Dr. Frank Hartley, scientific services director of this company (*Brit. med. J.*, February 27, p. 521), is timely in providing assurance of the safety of piperazine, and of the B.D.H. preparation of piperazine adipate (Entacyl) in particular, in the recommended doses.

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[Dr. Hartley wrote that piperazine adipate, a sparingly soluble salt of piperazine, does not exhibit the toxic properties shown by the parent base and its soluble salts referred to by Professor T. Gordonoff. In extensive toxicological and pharmacological studies, to be published shortly, no evidence had been found of any acute or chronic toxicity on administering piperazine adipate to micc, rats, dogs, and other animals, even in doses of up to 7 gm. per kilo. By contrast with the neurotoxic effects of preparations of piperazine hydrate referred to by White and Standen (B.M.J., 1953. 2. 1272), no side effects had been found on administering tablets of piperazine adipate, and eradication of threadworms appeared to be secured in children and adults in two days by doses not exceeding 1.8 gm. daily. Piperazine adipate had also been found effective against many roundworms and hookworms.—EDITOR.]

DRUGS AND INTELLIGENCE

By L. R. C. HAWARD, D.Psy. (Leiden), M.A., B.Sc., A.B.Ps.S., A.M.Inst.E.

N the past half-century, the evolution of psychometric tests has enabled the concept of intelligence to be more precisely defined, until it is almost as much a scientific entity as an atomic wave-equation. Reliable psychometric techniques also provide a tool with which to measure the results of experimentation upon intelligence. A wide variety of drugs have been used in experiments to improve the actual level of intelligence in children and adults, in colonies of mental defectives, where inmates, through no fault of their own, are sentenced to a life of helpless existence without even the capacity to appreciate or enjoy it.

No Change

Most of the drugs tried, selected mainly on theories of brain metabolism, effected no change in intelligence, or produced an actual deterioration. One group of drugs appeared very promising until delayed side-reactions proved prohibitive, and these are worthy of mention. Dr. G. de M. Rudolph, consultant psychiatrist to a group of North Somerset mental deficiency hospitals, noticed that the curve of intelligence, which is steepest at birth and flattens out finally about the fifteenth year, reaches its maximum on a curve exactly opposite to that of the biochemistry of adolescence. That is, that as the sex hormones increase in activity, so intelligence rates decline, becoming constant at zero increase when sexual hormonic activity is at its greatest. From this Dr. Rudolph drew up the tentative hypothesis that if that hormonic activity could be reduced or neutralised, intelligence might continue to improve. To confirm that hypothesis, he instituted a series of experiments upon mental defectives in early adolescence, in which hormones of the opposite sex were injected at a rate proportional to the existing hormonic activity. That meant, in theory at least, a continually changing dosage, and a typical prescription would be:--

(For a boy) stilbæstrol 0.18 mgm. o.m. for nine days. 0.25 mgm. o.m. for five days.

0.25 mgm. b.d. for fourteen days.

0.25 mgm. t.d.s. for nineteen days.

(For a girl) testosterone 5 mgm. o.m. for twenty-one days.

10 mgm. o.m. for six days.

10 mgm. b.d. for thirteen days.

5 mgm. b.d. for seven days,

2.5 mgm. o.m. for seventeen days.

It will be noticed that unlike the dosage curve for the boys, in which hormonic activity is increasing all the time in an endeayour to overcome the neutralising effect of the female hormone stilbæstrol, the dosage curve for the girls is unimodal, showing that opposition to the injections is relinquished after a month of treatment when the ovaries gave up the struggle of trying to compete with the testosterone. With that sex the menstrual activity was a disturbing factor in the experiments, and the side reactions connected with that function did in fact screen any advantages gained by the administration. The girls felt unwell, and began vomiting soon after treatment had commenced. Changes occurred in the menstrual pattern, the cycle increasing in frequency, and the active periods being associated with discomfort and signs of biochemical disbalance.

The boys showed rapid improvement, however, and those entirely helpless became able to feed and even to dress themselves. Their "social quotient" rose by as much as 20 per cent. in some cases, and many of the behaviour disorders showed signs of disappearing completely. The aggresive individuals, who were always engaged in terrorising their companions whenever the opportunity offered, became quite docile and manageable. Shaving became unnecessary, and by the end of the first course of treatment, the boys were complaining of painful and enlarged nipples. Once the treatment was discontinued, the improvement was not maintained, and the boys rapidly reverted to their former level of intelligence. A second course of treatment was instituted for the boys, but had to be discontinued owing to the rapid enlargement of the breasts and other disconcerting changes in the boys' masculinity. The hypothesis was thus confirmed but the theory proved impracticable, and the "guinea pigs" remained in their status quo ante.

A more successful drug had been found to be glutamic acid, and a number of independent investigators have found that this drug can be used over a long period with no side effects. Improvement with glutamic acid is not as phenomenal as with stilbæstrol, and requires many months' treatment before the effects are great enough to be accurately measured, but so far the effects do seem to be permanent. Tablets containing 0.5 gm. of the naturally occurring dextrorotary substance are used, and the usual dosage is 9 gm, t.d.s. for the first four months, and 12 gm. q.d.s. for the next six months. As with ho mones the social changes are very marked and the subjects undergoing treatment gradually obtain complete emotional adjustment with their environment. That means that many defectives are able to go beyond the confines of the home for the first time by themselves, and that many others will be able to enter domestic service or take up some simple occupation which will make them to some extent self-supporting, thus increasing their own ego. Actual rises in intelligence so far recorded are in the order of 10 to 15 points of intelligence quotient (I.Q.) and this will enable many of the high-grade defectives to become educable and thus open up a wider and brighter future for them. Unfortunately, glutamic acid does not improve all recipients, and experiments are still in progress to find a suitable modification that will make it applicable to all cases. Should those researches be successful, and if the improvement is maintained and not just temporary, glutamic acid may well prove to be the drug which has blought more human happiness than any other.

RECENT RESEARCH

ANTIBIOTICS INHIBITED BY CORTISONE

THAT cortisone impairs the action of antibiotics in augmenting a patient's antimicrobial defences has been indicated in demonstrations by Jawetz and Merrill (Science, 1952.II.549). White mice infected with Klebsiella pneumoniæ were given cortisone and treated with varying doses of antibiotic. Control mice were similarly injected but not given cortisone. It was found that at the lower dosage levels of antibiotic the mortality rate from the infection was considerably higher in the mice receiving cortisone, but that large excesses of antibiotic overcame the inhibitory action of the cortisone.

STAPHYLOCOCCI UNDER ERYTHROMYCIN

MEASUREMENT of the activity of erythromycin against a large series of strains of Staphylococcus aureus is described by Hobson (Brit.med.J., 1954.1.239). Tests were carried out in vitro using pure crystalline erythromycin and strains of Staphylococcus aureus isolated from patients with staphyloceccal infections or from nermal nasal or oral flora. The sensitivity of the staphylococci to erythromycin was found to be of the order of 0.5 microgm. mil. The effect of the antibiotic on the growth rate of the organisms was shown to vary according to the concentration of antibiotic, concentrations above the minimum inhibitory strength producing a fall in viable organisms. The development in staphylococci of resistance to erythromycin was similar to that experienced with penicillin.

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21. INFECTIOUS DISEASES.—continued

Measles

T is a pity that the same advances cannot be reported in the treatment of measles as in whooping cough. People tend to regard measles as an inevitable occurrence of childhood. Holding that view, many approach the subject with defeatism and resignation. That attitude is unfortunate because, in children under three years of age, measles is a serious condition to be avoided if possible.

The infecting organism of measles is a filterable virus against which chemotherapy and antibiotics are, at present, ineffective. The normal incubating period is from seven to fourteen days, and the period during which the patient is most infective is the five days or so before the appearance of the rash. Noting that the patient is infectious prior to the appearance of the rash, one is bound to wonder why some local authorities take the trouble to make measles a notifiable disease. Notification can do little to prevent the spread of infection.

Measles is highly infectious, and it is a condition therefore, that has to be closely watched in boarding schools, hospitals and other places where susceptible children live in a closed community. Prophylactic treatment is available in the form of human convalescent serum or Cohn's gamma-globulin, but the supply of the former is necessarily limited, and it can hardly be used in every case, however justifiable such use would appear. Cohn's gamma-globulin is generally available, and dosage may be adjusted according to whether it is desired to prevent the attack or to modify it. It must be remembered that these preparations provide merely a passive and transient immunity. Once the patient has had measles he is most unlikely to have a further attack, even if the original attack occurred in a modified form. It is desirable, therefore, in many cases to allow the patient to have a modified attack and thus acquire an active immunity, which will last for a life-time. Where an outbreak occurs amongst weak or sick children, or where the child is very young, there is a strong argument in favour of postponing the inevitable and adjusting the dose of gamma-globulin in order to prevent an infection at that time. Suggested doses for gamma-globulin are 675 mgm. to prevent, and 150-300 mgm, to modify an attack in an infant under two years of age; from two to five years the doses should be raised to 900 mgm. to prevent and about 300 mgm. to modify an attack. Gamma-globulin is given intramuscularly on the first and third day after contact.

From the foregoing it may be seen that measles offers special problems when outbreaks occur in children's institutions. The medical officers of such institutions cannot be expected to make daily inspections of all the children, and it is inevitable that cases will occur from time to time. Once a case has been diagnosed, measures have to be adopted to limit the spread. As has been said, patients are most infectious for the five days before the rash appears. At that stage, minute Koplik spots appear in the mucous membranes in the mouth lining the side of the cheek. Prior to the appearance of the spots, the patient appears to be having a mild upper respiratory infection with catarrh, and there is usually a slight rise in temperature, causing the child to feel a little out of sorts. Physicians make use of those prodromal symptoms and signs. School medical ex-

aminations provide the information whether a child has had measles. When the first case occurs, the temperature is taken daily of all children who have not previously suffered from measles and if a rise is noted the child is removed from contact with his schoolmates and put to bed. Oral examination during the next few days reveals the presence or absence of measles by the appearance of Koplik spots. The spots can be seen clearly as little white specks surrounded by a red areola. Depending upon the circumstances, prophylactic treatment may be given by administering gamma-globulin, By adopting these measures, physicians are able to look after patients at the earliest possible moment, and they avoid the indiscriminate quarantine of a large number of susceptible children with the consequent unnecessary loss of schooling.

Prophylactic treatment can only be carried out on the lines above, and it is not possible to adopt widespread immunisation in the same way as for diphtheria and whooping cough. While immunisation may be said to be indiscriminate in its application but active in its effect in the case of diphtheria it is selective and passive so far as measles is concerned. One must have at least a modified attack to gain any active immunity.

Curative Treatment

Curative treatment is along the general lines for fevers, as already described in a previous article. Medical supervision is essential to prevent the incidence of complications, which consist mainly of broncho-pneumonia, otitis media and dysentery. Those complications are by no means rare, and they are responsible for much of the gravity of infections in very young children. In the initial stages of infection the mucous membranes of the mouth and upper respiratory passages are damaged, the extent depending upon the virulence of the infection. Until the membranes are healed (normally a matter of a few days) the patient is much more liable to secondary bacterial invasion of staphylococci, streptococci and the like than normally. Those microorganisms may be present in the patient's own mouth or they may arise by droplet infection from visitors. It is most important, therefore, to reduce the number of visitors to the minimum, and to make sure that no visitors or attendants having an upper respiratory infection are allowed in the room unless their mouths and noses are adequately masked. In institutions, a case can be made for prophylactic treatment of all cases with sulphadimidine or some other suitable sulphonamide until the membranes are healed. Physicians normally make frequent inspection of the ears, chest and throat in order to make an early diagnosis of the secondary complications. Treatment can then be instituted early, and since the causative micro-organisms of the complications are usually bacterial and sensitive to penicillin, sulphonamides or some other antibiotic, the results are usually good.

Gamma-globulin has no demonstrable effect on a case once it has been established and so, apart from chemotherapy against secondary bacterial invaders, drug treatment is largely palliative. There is frequently a distressing cough with a varying degree of laryngitis. This can be treated in the usual way with glycerin, honey and lemon preparations,

and pastilles designed more for their property of inducing salivation (i.c., pleasantly flavoured) than for any antiseptic quality. In the writer's opinion penicillin lozenges or similar local antibiotic preparations are contra-indicated. To remove some of the bacteria can only encourage the growth of certain fungi, and thus thrush and other monilial infections will not only be more frequent but will be actively encouraged. A steam kettle with Friar's balsam may be

old-fashioned but is adequate to provide symptomatic relicf. Patients usually have a photophobia, and so it is advisable to place the bed out of the line of direct light. If corneal ulceration occurs, it is essential to treat it immediately. Treatment normally involves the instillation of atropine drops (0·25 per cent.) in order to rest the ciliary muscles and silver proteinate drops (10 per cent.) to counteract bacterial infection.

Onward from Galen

A CURRENT CAUSERIE

A FIRST step towards weather control is claimed to have been made by Dr. Irving Krick, an American meteorologist in Britain now to offer his "rain-making" project to British farmers. Dr. Krick, whose weather-control plan was the subject of a Parliamentary debate this week (see p. 231) claims that, by increasing rainfall, he has boosted crop production in the United States and other countrics by as much as 50 per cent. The process depends on the generation of silver iodide vapour, which is directed into rain clouds, causing them to release a much greater quantity of moisture than they otherwise would. The project, which would cost between £30,000 and £50,000 to put into operation in parts of south-east England, requires the existence of a small rain-cloud as a starting-point.

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A PARAGRAPH on "dilettante chemists" in the Manchester Guardian recently cited Louis Napoleon as having made little progress when coached by M. Acar, "local pharmacist who visited the Ham fortress"; and Dr. Johnson, who sent Mr. Peyton to a Temple Bar pharmacy for an ounce of vitriol. The paragraph was prompted by "yet another fatal accident" with a chemistry set. The implied tribute to pharmacists as being the professionals of chemistry may be noted with satisfaction. It prompts the speculation how many pharmacists came to their profession through an early interest in "elucidating the ulti-mate phenomena of combustion." Not many of our acquaintance, we would venture a guess. No doubt early experiments in pyrotechny have their survivals as well as their victims (both those who succumb and those who think better of the subject). But there must be also a large percentage of the population who avoid those perilous investigations of the powers of potassium chlorate, either because they are too seriously minded or because, we like to think, they have already begun to show a professional grasp of chemical theory. How early do pharmacists develop the sense of social responsibility they are called upon to show in withholding potentially dangerous chemicals from immature customers?

A RECENTLY published book by Mr. Aldous Huxley describes the reactions of the author to the drug mescaline. Apparently his dose was 0.4 gm. in a glass of water. Huxlcy tells how, under the influence of the drug, every object was transfigured. On his bookshelves he saw "red books, like rubies; emerald books . . . books of agate, of aquamarine, of yellow topaz." The spatial relations of object to object seemed to have changed or to have ceased to matter. Apparently Mr. Huxley would like to popularise mescaline as an alternative to tobacco and alcohol—as soon as the scientists have perfected it and made it innocuous. No doubt pharmaceutical chemists in retail practice will be faced with inquiries for this new-found solace. So far as we are aware supplies of the drug are not available on a commercial scale in Britain. It is supplied in small quantities to research units; is relatively expensive; and there is no clinical application. In a person unaccustomed to the drug, it can induce psychosis causing loss of sense of time and space (sometimes of smell) and a feeling of double personality similar to that of schizophrenia. A remarkable property of the drug is that it produces visions of brilliant

coloured objects. It has no effect on sleep. Large doses cause nausea and a slow pulse and may kill by stopping respiration. Under the name "mescal button," the tops of one or more species of small plants belonging to the Cactacea were introduced into medicinal use in 1887 by D. Briggs, of Dallas, Texas, U.S.A. In Mexico the plant is known as pellote or peyote and is found in barren rocky soil in the valley of the Rio Grande in Mexico. It grows only to the height of about $\frac{1}{2}$ in, above the surface of the The green, fleshy, convex head, about 1-2 cm. high, and 5-6 cm. in diameter is the part that is cut off and dried. The underground portion of the plant is carrotshaped. The species named A. Lewini was investigated by D. Lewin of Berlin at the instigation of Parke, Davis & Co. (Therap. Gaz., 1888. 231). He extracted an alkaloid that seemed to possess properties resembling those of strychnine. But the results obtained by different workers indicate that more than one species is used under the name mescal button or pellote. It seems probable that the mescal buttons are indentical with the "sacred mushroom" of the Aztecs.

THE PHYSICIAN

THE last of seven "medical phisogs" from the "Gallery of Comicalities" (see C, & $D_{\rm s}$, 1953. II. 188).



Oh! thou whose useful task it is
From mortals frail to chase disease;
And, with demure and solemn phiz,
To press the pulse, and finger fees;
Skilled to avert the stroke of Fate,
When Death is watching for a capias,
May honour rest upon thy pate,
Thou follower of Aesculapius!

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

ASTHMA-FRENON, — Two forms: 1. An aqueous solution containing caffeine with gualacol glycerin, phenyldimidinepyrazol, potassium thiocyancte, ephedrine hydrochloride, benzyl monophthalate soluble. 2. An el.xir containing those ingredients in a syrup base. Dosage: Solution, 10-20 drops, 3-6 times daily on sugar with a little liquid, not on an empty stomach. Elixir, 1-2 teaspoonfuls, 3-6 times daily; children, half to one teaspoonful according to age. Solution supplied in dropper bottles of 20 e.c., elixir in bottle of 150 e.e. Frenon-Arzneimittel, G.m.b.H., Werne an der Lippe (Arzneimittel Forschung, November 1953).

BARGOSIN. — 5 - (-3'-Phenanthryl) - 5 - methylhydantoin, Issued as 0-15-gm, tablets for use in all forms of cerebral convulsions, genuine and post-traumatie epilepsy, petit mal and pyknolepsy in children. Cassella Farbwerke Mainkur, Frankfurt-am-Main, Fcchenheim (Disch. Apotheker Zig., December 12, 1953).

BIRUTAN.—A sodium salt of rutin-sulphuric acid etter issued in 2-c.c., ampoules for intravenous and intramuscular injection for the prophylaxis and therapy of hæmorrhage in hypertonia, arteriosecerosis, ieteric hæmorrhage, etc. E. Merck, Darmstadt (Dtsch. Apotheker Ztg., December 12, 1953).

DESENCIN,—Each sugar-coated tablet contains 1:4-dihydrazinophthalazine (theophylline salt), 25 mgm.; dithiocyanide salt of tetramethyl hexamethylene-diamine, 10 mgm.; casantin, 10 mgm. Intended for fixed and labile forms of essential hypertonia, renal hypertonia, acute glomerulonephritis, malignant nephroselerosis and hypertension of toxicosis of pregnancy. Cassella Farbwerke Mainkur, Frankfurt-am-Main, Fechenheim (Disch. Apotheker Ztg., December 17, 1953).

EPfLAN. — 3-methyl-5:5-phenyl-ethyl-hydantoin. Issued as tablets of 0-1 gm. Firina Walter Krebs, Frankfurt-am-Main, Nicdersad (*Dtsch. Apotheker Ztg.*, November 11, 1953).

NEGATOL.—40 per cent, solution of polymerised dioxy-dimethyl-diphenyl-methane-sulphuric acid, for use in gynæcology: ordinary (not gonorrheal) metritis, cervicitis, eolpitis, etc. In dermatology: Ulcus cruris, torpid inflammation of skin and mucous membranes. BykGulden Lomberg, G.m.b.H., Konstanz (Disch. Apotheker Zig., November 5, 1953).

OMNACILLIN.—A suspension of Novocainepenicillin in a concentrated Omnadin solution (1 c.c. represents 2 c.c. ordinary Omnadin). Dose: Usually 400,000 i.u.; less severe infections, 300,000 i.u., daily, if necessary 2-4 times daily, by intramuscular injection. Bottles of 1 c.c. (representing 200,000, 300,000 or 400,000 i.u.). Hospital packings available. Farbwerke Heechst (formerly Meister Lucius & Brüning), Frankfurt-am-Main, Höchst (Arzneimittel Forschung, November 1953).

SCHEROMYC1N,—Combination of streptomycin and dihydrostreptomycin sulphates, Schering A.G., West Berlin (Disch, Apotheker Ztg., November 19, 1953).

SUBICARD. — 10 mgm. pentaerythrityl tetranitrate in tablets for administration in angina pectoris, coronary spasm, etc. Dosage: Continued treatment, 1-3 tablets daily, gradually increased to 1-3 tablets every three or four hours until optimum dore is reached. Acute attacks, 3-4 at short intervals. With a little liquid, not on empty stomach, Packs of twenty, forty, 250 and 1,000 tablets. Hefa G.m.b.H. Chemisch-pharmazeutische Fabrik, Werne an der Lippe (Arzneimittel Forschung. November 1953).

LOCAL OFFICERS

National Association of Women Pharmacists
Blackpool Branch. — Chairman, Miss L. I.
Anderson; Vice-chairman, Miss E. Whittaker; Treasurer, Mrs. J. Alderson; Assistant
secretary, Mrs. J. Limb; Secretary, Mrs. A.
Greenwood, 255 Talbot Road, Blackpool, Lancs.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

AMINACYL B-PAS

MANUFACTURER: A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1. Description: Cachets of 1 gm. calcium B-PAS and of 1.5 gm. sodium B-PAS,

and packets of 3.5 gm. calcium salt. INDICATIONS: All forms of tuberculosis.

Dosage: 12 gm. daily or according to judgment of physician.

How Supplied: In tins of eighty and 400 cachets and of 150 and 500 packets.

FIRST ISSUED: November 1953.

ESKACILLIN 100 SULPHA

Manufacturer: Menley & James, Ltd., Coldharbour Lane, London, S.E.5.

DESCRIPTION: A palatable combination of penicillin and sulphadimidine for oral administration.

FORMULA: Potassium penicillin G, 100,000 international units; sulphadimidine. 0.5 gm, in each fluid drachm.

INDICATIONS: Infections due to organisms sensitive to penicillin or sulphonamides; particularly mixed or double infections.

Dosage: Infants, one to two teaspoonfuls initially then one teaspoonful every 4-6 hours. Children, two to three teaspoonfuls then two teaspoonfuls every four hours. Adults, four to six teaspoonfuls then three teaspoonfuls every four hours.

How Suppled: In 2-fl. oz. (56-mil) bottle containing 1,600,000 international units penicillin and 8 mgm. sulphadimidine in a palatable buffered vehicle.

FfRST ISSUED: November 1953.

References: Brit. Med. J., 1953.1.806. Brit. Med. J., 1953.1.953. Med. ill., 1953. 7.651.

ETHISAN

MANUFACTURER: Menley & James, Ltd., Coldharbour Lane, London, S.E.5.

DESCRIPTION: A bland detergent for dermatological use.

FORMULA: Sodium lauryl sulphate B.P., 5.56 per cent.; Lanette wax SX, 0.938 per cent. in aqueous vehicle.

Use: For removing excess skin secretions, débris in tinea pedis, etc., nits in pediculosis after the lethal agent has taken effect, oils, fats and paraffins that have been applied to the skin or scalp in the course of treatment; in conjunction with local medicaments to increase their action; and for cleansing skins that will not tolerate soap.

TECHNIQUE: Shake well before use. To cleanse the skin use a pledget of cotton wool soaked in undiluted Ethisan. May be used in the same way as a liquid soap. For shampooing use two to three teaspoonfuls massaged into the wetted scalp and hair. Rinse afterwards.

How Supplied: In 4-oz., 8-oz., and 80-oz. bottles.

FIRST ISSUED: November 1953.

THYTROPAR

MANUFACTURER: The Armour Laboratories, Chicago (distributors, The Armour Laboratories, Lindsey Street, London, E.C.1).

DESCRIPTION: Highly purified lyophilised thyrotropic principle of bovine anterior pituitary glands. 10 U.S.P. thyrotropin units per vial.

Use: (a) In differential diagnosis between primary thyroid and pituitary myxœdema; (b) to increase the concentration of radioactive iodine in metastatic thyroid carcinomas; and (c) for rapid symptomatic relief and hastening recovery in acute thyroiditis.

Dosage: (a) Dose of 10 U.S.P. units elevates serum protein-bound iodine in pituitary myxœdema only; (b) single dose of 10 U.S.P. units; (c) 10 U.S.P. units daily for three to five days. All by intramuscular injection.

How Supplied: In vial containing 10 U.S.P. thyrotropin units.

FIRST ISSUED: August 1953.

Notes: Not for general use by general practitioners. Designed for use by organisations having facilities for work with radioactive materials.

REFERENCES: Perlmutter, J. Clin. Endocrinol, 1951. 12, 1495; Rawson and Rall, Med. Clin. North America, 1952. 36, 639; Robbins, J. Clin. Endocrinol, 1951. 11, 1106.

ANORVIT

Manufacturer: The British Drug Houses, Ltd., Graham Street, London, N.1.

DESCRIPTION: Sugar-coated tablets each containing exsiccated ferrous sulphate, gr. 3; ascorbic acid, 10 mgm.; acetomenaphthone, 2 mgm.

INDICATIONS: Iron-deficiency anæmias, especially in patients normally intolerant to iron by mouth.

Dosage: Children, one tablet 2—3 times a day; adults, two tablets three times a day; preferably during or immediately after meals.

How SUPPLIED: In bottles of fifty and 500.

FIRST ISSUED: November 1953.

REFERENCES: Amer. J. Obstet. Gynec., 1952.64.416. Med. Press, 1954.1.112.

FELOPAN

MANUFACTURER: Coates & Cooper, Ltd., Pyramid Works, West Drayton, Middlesex.

DESCRIPTION: Orange coated tablet.

FORMULA: Extract of ox bile, B.P.C., gr. 12; pancreatin, B.P.C., gr. 14.

Use: Supplementary source of bile salts and pancreatic enzymes in the treatment of indigestion and constipation.

Dosage: One to three tablets before or during each meal, and at bedtime.

How Supplied: In bottle of 100 tablets.

FIRST ISSUED: November 1953.

FELOPAN COMPOUND

MANUFACTURER: Coates & Cooper, Ltd., Pyramid Works, West Drayton, Middlesex.

DESCRIPTION: Blue coated tablet.

FORMULA: Strychnine hydrochloride, B.P., gr. 1/200; dry extract of belladonna, B.P., gr. 1/40; aloin, B.P., gr. 1/5; extract of ox bile, B.P.C., gr. 1; pancreatin, B.P., gr. 3/10; phenolphthalein, B.P., gr. ½.

Use: A temporary measure in the initial treatment of inveterate constipation; subsequent treatment should be given with Felopan (q.v.).

Dosage: One to two tablets at bedtime.

How Supplied: In bottle of 100 tablets.

FIRST ISSUED: November 1953.

SECONESIN

Manufacturer: The Crookes Laboratories, Ltd., Gorst Road, Park Royal.

DESCRIPTION: Tablets each containing mephenesin (3-(2-methylphenoxyl) propane-1:2-diol), 400 mgm.; secobarbital (quinalbarbitone), 30 mgm.

INDICATIONS: Management of anxiety-tension states and otherwise when relaxation and sedation desired. Day-time sedation.

Dosage: One tablet every four to six hours, preferably after meals, or as directed by the physician.

How Supplied: In bottles of twenty-five and 100 tablets.

FIRST ISSUED: November 1953.

Notes: Part 1 and Schedules 1 and 4 poison.

REFERENCES: Schlan and Unna, J. Amer. med. Ass., 1949.140.672. Dixon and others, Am. J. med. Sci., 1950.220.1940.

FLEET disposable enema unit

Sole Distributors: The Anglo-French Drug Co., Ltd., 11 Guilford Street, London, W.C.1 (for C. B. Fleet Co., Inc., U.S.A.).

DESCRIPTION: A flexible screw-capped polyethylene container, with a plastic rectal tube hermetically sealed in an envelope of cellulose film, charged with $4\frac{1}{2}$ fl. oz. Fleet enema solution (sodium biphosphate, 16 per cent.; sodium phosphate, 6 per cent. w/v).

Use: For complete catharsis of the colon.

INDICATIONS: Preparation for radiography, proctoscopy, sigmoidoscopy. Preoperative cleansing and post-operative care.

Dosage: Adults, 4 fl. oz.; infants, 2 fl. oz.

How Supplied: In single units ready for use.

FIRST ISSUED: December 1953.

MISCELLANEOUS INQUIRIES

Loss of Colour in Mixture

Can you explain why mist. sulphadimidin, pro infant, should lose its colour in the course of six weeks or so?

THE mixture should be freshly prepared. If kept for more than a few weeks it begins to ferment and its colour gradually fades. Amaranth, being an azo-dye, may be changed to its colourless leuco-compound by a reducing agent such as sulphur dioxide which may be present in syrup of raspberry.

Arquebusade

Can you supply me with a formula for "arquebusade"?

WE assume that your request for a formula for arquebusade refers to the arquebusade formula formerly in fairly widespread demand. There were a number of formulas for such a preparation. The following, we think, is probably the formula of the preparation you have in mind:—

Oil of wo:mwood ... min. 16
Oil of lavender ... min. 16
Oil of thyme ... min. 16
Oil of peppermint ... min. 16
Oil of rosemary ... min. 16
Oil of sage ... min. 16
Rectified spirit ... fl. oz. 30
Mix and add warm water fl. oz. 40
Strain through cotton wool.

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Nonofficial Remedies":—

HEXAMETON.—Brand of hexamethonium issued by Burroughs Wellcome & Co., Inc., Tuckahoe, New York, as solution of the chloride (0-135 gm. per c.c.) in 10-c.c. vial. Preserved in 0-1 per cent, methylparapen.

TETRAETHYLAMMONIUM CHLORIDE. - A quaternary ammonium compound which par-tially blocks transmission of motor nerve impulses through both sympathetic and para-sympathetic ganglia. Its action is not adrenolytic and is interrupted by neostigmine. Of limited clinical usefulness as a therapeutic and diagnostic agent in the management of peripheral vascular diseases and other condi-tions involving vascular dysfunction. Has been employed successfully in the therapy of throm-boangiitis obliterans (Buerger's disease), arterio clerosis obliterans, various causalgias including reflex dystrophy, herpes zoster, thrombophlebitis, Raynaud's disease, acrocyanosis, trench foot, and immersion foot. May be employed diagnostically in acrovascular conditions to estimate the contribution of sympathetic stimuli in the maintenance of varospasm. Should be employed with caution in patients with severe hypertension, particularly in presence of poor renal function or high diastolic blood pressure. Repeated administra-tion should be avoided in pre ence of impaired renal excretion. Not suitable for treatment of hypertension because hypotensive effect is not sustained. Should not be used in patients with recent coronary thrombosis and should be used with caution in all elderly patients and those with arterio-clerosis. Administered intra en-ously (2-5 mils of a 10 per cent, solution) or intramuscularly (10-12 mils). Parke, Davis & Co., Detroit, supply solution Etamon chloride (10 per cent, tetraethylammonium chloride) in 20-mil vials. Preserved with 0.005 per cent. benzethonium chloride.

A MODERN COURSE OF PHOTOGRAPHIC STUDIES

3. SENSITOMETRY - PART II.

(Concluded from The Chemist and Druggist, February 27, p. 221)

Parallel and Diffuse Densities

Hitherto we have concerned ourselves with the sensitometry of the negative material. In order to produce a normal photograph, a positive print on paper is obtained by printing through the negative. Apart from such practice as shadowing during printing, all parts of the paper receive the same time of exposure, the different paper densities being given by different intensities caused by the negative densities.

The transmission density of a negative has been defined as the log of the opacity, opacity being the ratio of incident to transmitted intensity. If we look somewhat more closely at the problem we find that the density of a negative may have a different value according to the method of measurement, owing to the fact that, when parallel light falls on to the metallic silver of a negative density, some of the transmitted light is scattered. If the incident light is parallel, and we measure only that portion of the transmitted light which is transmitted parallel to the incident light, we obtain a value known as "parallel density" (D||). This value is greater than that given by measuring the whole of the transmitted light, irrespective of direction. The latter is known as "diffuse density" (Dff), and is identical with the value obtained when one illuminates by diffuse light and measures only that portion transmitted normally. Parallel and diffuse density measurements are illustrated diagrammatically in Fig. 10.

well removed from the optimal values. To compensate for too high a density, one has merely to increase the printing time, or the brightness of the printing light, and the wide range of contrasts of modern printing papers will produce excellent prints from negatives of a correspondingly wide range of contrasts. Consequently it is nowadays seldom necessary to resort to such devices as intensification and reduction in order to modify negative density. Indeed, a reduced or intensified negative seldom gives as good a print as a correctly exposed negative, and hence such devices should be reserved for important negatives of subjects that cannot be retaken.

Photographic Reduction

When the density of a negative is too high, it may be reduced by dissolving away some of the silver. It is unfortunate that the term "reduction" is thus applied, since the same term is widely used in a chemical sense, for the removal of oxygen or its equivalents. Confusion is the more confounded, because photographic reduction involves the removal of silver by oxidation, a process which is the opposite of chemical reduction. Where the context does not clarify, reduction in the photographic sense should always be specified as "photographic reduction."

There are numerous oxidising agents that will dissolve metallic silver, and hence give photographic reduction, but one must exclude from the list of useful "reducers" those

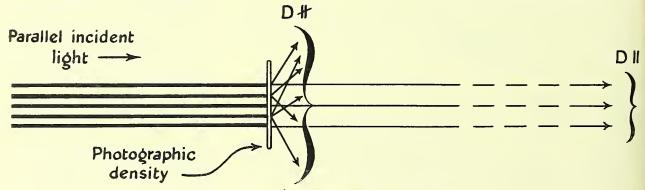


Fig. 10. Parallel and diffuse densities.

In sensitometric practice Dff is usually measured, but in photographic printing either density may be operative, according to the printing method used. When using a condenser enlarger, the negative is illuminated by roughly parallel light, and only the parallel component of the transmitted light reaches the paper, so that D|| of the negative is operative. In contact printing, the whole of the transmitted light reaches the paper, so that DH is operative. The latter is also operative when using a diffusing enlarger, since the negative is illuminated by diffuse light, though only the parallel constituent reaches the paper. Since DII is greater than Dff all the densities (and hence the contrast) will be effectively somewhat higher when using a condenser enlarger than when using a diffusing enlarger. Contrast should theoretically be higher with a condenser enlarger than with contact printing but, while that is usually true of bloomed lenses, the flare from an uncoated lens may seriously reduce contrast.

Modification of Density

Errors in exposure and/or development may produce negatives of which the average density or the contrast are

that have a deleterious effect on the gelatin. Valuable flexibility in reducing negatives is afforded by the fact that different reducers act in different ways. For example, Farmer's reducer (potassium ferricyanide and hypo) removes silver uniformly over the whole area, irrespective of the original density. All densities are thus lowered by an equal amount, and the original contrast is maintained. A reducer acting in this way is termed a "subtractive" reducer, and is usefully applied to an over-exposed, but correctly developed, negative. If contrast has to be diminished, then a "proportional" reducer, which removes silver in proportion to the original density, should be employed. A proportional reducer "undoes" development, and is therefore useful for over-developed (too contrasty) negatives. A typical proportional reducer is a mixture of potassium permanganate and potassium persulphate. This is really a compromise, since persulphate alone acts as a super-proportional" or flattening reducer, and greatly reduces contrast by a strong preferential action on the dense portions of the negative. Many other reducers are available, and a valuable addition to the range has recently appeared. This is ammonium thiosulphate, made slightly

acid with citric acid. The mechanism is the same as in the reduction of density caused by aerial oxidation when a material is left too long in a fixing bath. The ammonium-thiosulphate/citric-acid bath is a proportional reducer, and acts much more rapidly than a normal fixing bath. Its rate of reaction, moreover, may be controlled by the amount of citric acid present, and it has the valuable property of first removing dichroic fog and silver stains, before appreciably attacking the image.

Intensification is the name given to the treatment of a negative so as to increase the optical density of an image. This will give rise to an increase in contrast, but since very low densities in the extreme foot of the curve may be transferred from photographically useless to useful densities,

intensification may give rise to a small speed increase. This increase is necessarily limited, since no amount of intensification will give detail in a negative where detail is not already present. Intensification is usually a chemical process whereby the silver is changed to a more opaque state, or is augmented by the deposition of metals or compounds in proportion to the original silver. Methods of intensification are legion, and methods are based on the use of salts of mercury, chromium, silver, copper, lead and uranium. The recently introduced quinone-thiosulphate intensifier has proved to be most effective and satisfactory.

Intensification causes an undesirable increase in grain, and it should be emphasised that after-treatment of negatives should only exceptionally be resorted to.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on February 19, the president (Mr. W. H. Boyd) in the chair. Also present were Messrs. W. P. Ewart (vice-president), S. E. Campbell, H. J. Cousley, H. P. Crossin, H. W. Gamble, J. McGregor, F. R. Moore, H. F. Moore, C. A. Quinn, P. R. W. Shinner, Walter C. Tate, and Professor E. B. C. Mayrs. The secretary (Mr. William Gorman) was in attendance. The PRESIDENT expressed the good wishes of the Council for the speedy recovery of Mr. James Irwin (treasurer) from the effects of an accident,

A letter was received from the committee of the Associates' Section of the Ulster Chemists' Association offering to present a prize in connection with the Society's examinations in a subject for which a prize was not at present available. Proposing that the offer should be accepted, Mr. Shinner suggested that the subject could be one of those in which students had special difficulty, giving a stimulus to further effort. Mr. Gamble seconded and the motion was passed.

The secretary of the Society of Pharmaceutical Students also wrote asking the Council for a grant towards the travelling expenses of the party of students visiting London at Easter led by their lecturer (Mr. C. W. Young). The letter said that the party would visit manufacturing companies in order to advance their studies and that the expenses of each of the ten or twelve taking part would be £20. Towards that the Society had raised some money from dances and other efforts. Mr. Gamble proposed that a grant should be made and on the motion being passed the Education Committee was asked to determine a suitable amount. Mr. Gamble pointed out that it was open to students to take advantage of the assistance available for their attendance at the British Pharmaceutical Conference.

The secretary of the North-east Ulster Chemists' Association wrote stating that, at a meeting on February 8 addressed by the pharmacy inspector, the suggestion was made that it would be helpful if the Poisons Guide were revised. THE PRESIDENT said the present Poisons List was about three years old and agreed that it would be of benefit to issue an extended list. The certificate of apprenticeship was granted to M. D. McGinn, Londonderry; J. A. Robinson, Limavady; and R. E. McWilliams, Killylea.

The examiners' reports on the December 1953 examinations were received. In the Final Qualifying, Part II, Mr. H. Stout stated that the written papers in pharmaceutics were of about the usual standard, but considerable improvement was noted in the practical section. In pharmacognosy the general standard was not so good as in some previous years, and in forensic pharmacy the standard attained by the majority of candidates was fairly satisfactory. It would seem, the report said, that candidates were devoting insufficient time to the study of the latter subject, and that must be remedied. Dr. K. Bullock reported that the performance of candidates in pharmaceutical chemistry was satisfactory, 69 per cent. obtaining pass marks and showing that

the teaching and facilities provided for study were satisfactory. Dr. R. F. Whelan gave a satisfactory report on physiology. Writing on the chemistry examination in the Preliminary Scientific, Dr. Bullock described the performance of candidates as "very poor," only 47 per cent. obtaining the pass mark, and the practical work as "very disappointing." Dr. C. S. Watt said 55 per cent. of candidates passed in physics, most of those being repeats. In his opinion the general standard had improved over the past few years. Dr. A. F. G. Fenton said thirty-seven of the sixty-eight candidates in botany failed, twenty in both theory and practical. On zoology Mrs. G. M. D. Gotto said forty-three out of sixty-eight passed, the standard of theory being fairly good, and in practical fairly high.

BRITISH FINE CHEMICALS AND THEIR USES

3. MERCURIC CHLORIDE

MERCURIC chloride appears to have a wider variety of uses today than at any previous time. Whilst its properties as an antiseptic and disinfectant are well-established, its uses in industry and the laboratory are growing.

In industry it was used for etching steel but more recently mercuric chloride has been developed for the preparation of special black finishes on iron and steel surfaces. It is used in the manufacture of aniline red and various mercury preparations, and in cotton and other textile printing activities. Its use in the treatment of animal tissues and as an ingredient of embalming fluids led to certain applications of it for hat manufacture, though the latter use is now mainly obsolete owing to its toxicity. As a catalyst it is employed in organic syntheses particularly in brominating.

Earlier application of mercuric chloride for preserving railway sleepers was found too costly in face of competition from more economical preservatives, but, because of its powerful germicidal and antiseptic properties, it is still used for special wood treatment. It is used to a limited extent in the tanning of high-grade leathers, in certain antifouling compositions, and in photography

fouling compositions, and in photography.

The preparation of mercuric chloride is facilitated by the fact that mercury is generally pure and the only impurity likely to be experienced is minute quantities of arsenic. The metal is dissolved in aqua regia, or the oxide in hydrochloric acid, and the solution evaporated, but in the factory where mercury salts in general are prepared, the cost of these acids is largely obviated by using the sulphate of mercury as the raw material. That salt, to which sodium chloride and a little manganese dioxide are added, is sublimed from clay crucibles on a sand-bath, and a white crystalline mass of mercuric chloride is recovered from the receivers. The presence of arsenic even in minute quantities is serious from the medicinal aspect, and while the Marsh's or Reinsch's test suffices for rough tests, it is today more accurately determined by the spectrograph. The only other impurity likely to be experienced is mercurous chloride, and a finely ground sample of about 2 gm. must completely dissolve in 15 c.c. of pure ether. Its quantitative determination is done by the volumetric or sodium peroxide methods, but if no impurities are evident that work is superfluous.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 3: Because of quiet trading conditions in the CRUDE DRUGS market, most commodity prices were not seriously tested during the week. Jamaican and African GINGERS made further gains, the African now standing at 145s. per cwt. and Jamaican at 200s. (against 90s. and 115s. respectively, at the beginning of January).

Apart from Cardamoms, which were easier, and certain grades of CINNAMON, which were dearer, other SPICES were unchanged. Gum acacia was held at around 120s. per cwt. for spot supplies of Kordofan cleaned sorts but the shipment prices were not so steady. Mer-CURY was quoted fractionally dearer following a firmer tone in Spain and Italy. Among Aromatic seeds, Dutch CARAWAY was offered at 165s. per cwt., duty paid, against 135s. in the previous Australian light-amber HONEY week. was slightly easier; new-crop Jamaican is expected to arrive here at the end of March.

For the third time in less than two months CAFFEINE and THEOBROMINE were marked up; the increases on this occasion represented a rise of 1s. per lb. in all the salts and 1s. 6d. or 2s. as to the alkaloid. Physostigmine and its salts were also quoted slightly dearer in some quarters.

In the ESSENTIAL OILS market the majority of prices were held at previous levels, among the few that declined slightly were PATCHOULI, CORIANDER, PEPPERMINT (Arvensis) and SPEARMINT. Ceylon CITRONELLA was available on the spot at a price well under the corresponding shipment quotation. Anise and white CAMPHOR OIL were twopence per lb. dearer.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, MARCH 2: Synthetic CAMPHOR prices were reduced, effective March 1, with the U.S.P. powdered grade now 54 cents per lb. (down 3 cents); Japanese Menthol, which is in very limited supply, advanced to \$11.50 per lb. (up 50 cents), in sympathy with the hardening trend in the primary centre. The situation in PHENOBARBITONE was reported as somewhat

EXCHANGE RATES ON LONDON

At t	he	0	pening	on	W	ed	nesd	ay
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П		1	
	*Alexandria . Amsterdam .		97 1 -97 1 10.56-10.72
	*Bombay		1/515-1/515
	Brussels	Francs to £	138.95-141.05
	Copenhagen Dutch West	Kronor 10 £	19.19½-19.48¾
ı	Indies	Florins to £	5.24-5.32
i	*Hong Kong		$1/2\frac{2}{32}-1/3\frac{1}{32}$
ı	*Karachi	Shillings 10	
ı		rupee	2/183-2/118
ı	Lisbon	Escudos to £	79.90-81,10
ı	*Montreal		
ı	T.T	Dollars to £	$2.71\frac{9}{16}$ - $2.71\frac{11}{16}$
ı	New York		
ı	T.T	Dollars 10 £	2.78-2.82
ı	Oslo	Kronor to £	19.85-20.15
ı	Paris		972.6-987.3
ı	Stockholm .		14.37 - 14.59
ı	*Singapore		$2/3\frac{29}{32}-2/4\frac{1}{32}$
	Zurich	Francs to £	12.15 3 - 12.33 3
ı	*Free mar	ket rates; remain	nder Bank of
ļ		England.	

unsettled on rumours of price shading in some quarters. Among BOTANICAL DRUGS the short supply situation of several items plus high replacement costs had the effect of keeping price levels steady. Higher per lb. were COPAIBA BALSAM at 90 cents (up 10 cents), and Asiatic STYRAX at 92 cents (7 cents). Firmer also were TOLU BALSAM at \$3.35 per lb. (35 cents), and BUCHU at 40 cents (2 cents).

The market tone in Aromatic Chemicals and Essential Oils was termed fairly encouraging, with sales expected to be satisfactory this quarter. Chenopodium was \$1 per lb, dearer at \$5.50 and Cardamom advanced \$2 to \$40.00 per lb, Higher by 10 cents were natural Peppermint at \$5.75 and the redistilled at \$6.10 per lb, Also up were oleoresin Ginger at \$4.00 (40 cents), and Pimento leaf at \$2.40 (10 cents).

Pharmaceutical Chemicals

Aneurine Hydrochloride. — Prices (per kilo) range from £46 for 1-kilo down to £45 15s, for 100-kilo lots.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

		1-cwt.	28-Ib.	7-lb.
		s. d.	s. d.	s. d.
CARBONATE		23 5	23 8	27 5
SALICYLATE		22 6	22 9	26 4
SUBGALLATE		21 8	21 11	25 6
SUBNITRATE		20 11	21 2	24 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. The present 1-cwt. rates for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, Crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

CAFFEINE. — Firmer, For 1-cwt, lots. Alkaloid, B.P., is now about 21s, per lb.; ANHYDROUS ALKALOID, 22s, and CITRATE, 13s, 6d.

CITRATES.—Rates (per lb.) are as follows:—Potassium, 1-cwt. lots, 3s, 6½d. 28-lb., 4s, 6d.; Sodium, 1-cwt., 2s, 11½d.; 28-lb., 3s, 10d. (powder of both salts two-pence more). Iron and ammonium, 1-cwt. lots, 3s, 10½d. granulated, 4s, 2½d. scales.

CREAM OF TARTAR.—Rates for the home trade are now as follows:—1-ton lots, 191s. per cwt.; 10-cwt., 192s.; 5-9-cwt., 193s., 2-4-cwt.. 194s.; 1-cwt., 195s.

ERGOMETRINE.—For 20-gm. lots the price of the MALEATE, B.P., is £37 10s. per gm. and the TARIRATE, £34 15s. per gm.

Ferrous sulphate.—1-cwt. lots of R.P. crystals are 36s. 6d. and 5-cwt., 35s. 6d. per cwt.; granulated, 2s. 6d. per cwt. extra. Exsiccated is 90s. per cwt.

FORMALDEHYDE. — B.P. solution is 34s. per cwt.

HYDROGEN PEROXIDE. — Manufacturers' price for single carboys of 20 volumes is 4s. 6d. per gall.

HYDROQUINONE. — Quotations for 1-cwt. lots are 10s. 6d. per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

Magnesium Peroxide.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

Nikethamide. — Prices per kilo are: — 1-kilo, 115s.; 50-kilos, 107s.

Pyrogallic acid. — Pure crystals are 18s. per lb. in 1-cwt. lots.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home market are: ALKALOID, 8s. 9d.; SULPHATE, 6s. 7d. Extra charges for small lots.

RESORCINOL. — 1-cwt, lots are now quoted at 13s, per lb, by manufactu er.

STEARIC ACID. — B.P.C. 1934 in 1-cwt. lots is 170s.; POWDER, 180s.

TEREBINTH.—B.P. is 2s. 3d. per lb.

THEOBROMINE. — Firmer. Alkaloid is now about 22s, per lb, and the sodium salicylate, 15s, for 1-cwt, lots.

Alcohol

Prices of plain Brittsh Spirit per proof gal. are as follows:—

gal. are as follows:

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 9d.; 200,000 and less than 300,000, 2s. 9½d.; 100,000 and less than 200,000, 2s. 10½d.; 50,000 and less than 100,000, 2s. 10½d.; 10,000 and less than 50,000, 2s. 11½d. Prices are exclusive of duty and are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows:—

premium on the above prices as follows:—
Absolute Alcohol, 99.5 per cent., 74.5
o.p., 3d. more per proof gall.; the special
high strength (99.9 per cent., 75.2 o.p.),
5d. more; Doubly - Rectified Alcohol
(S.V.R.), 95.8 per cent., 68 o.p. is 4d.
more and P.I. Rectified Alcohol, 96.1 per
cent., 68.5 o.p., 8d. more. R.R. Absolute
Alcohol (re-rectified, 99.7 per cent., 75
o.p.), 12s. 6d. per bulk gall. net.

Methylated Spirits

METHYLATORS' rates per gall, in Great Britain were reduced on January 1 as follows:—

follows:—

Industrial methylated spirit: Strength 61 o.p., 500 gall, and over in one delivery, 4s. 9\frac{1}{2}d.; 100 gall, and under 500 gall., 5s. 0\frac{1}{2}d.; 100 gall, and under 100 gall., 5s. 0\frac{1}{2}d.; 30 gall, and under 100 gall., 5s. 3\frac{1}{2}d.; 10 gall, and under 30 gall., 5s. 5\frac{1}{2}d.; 5 gall, and under 10 gall., 5s. 9\frac{1}{2}d. Strength 64 o.p., 1d. per gall., 66 o.p. (B.P.), 2d.; 68 o.p., 2\frac{1}{2}d. more than the above rates with 74 o.p. from 4\frac{1}{2}d. to 9d. more according to quantity. Tank wagon delivery is 1\frac{1}{2}d. per gall, off list price:—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 5s. 4d. for 500 gall, to 6s. 2\frac{1}{2}d. Pryidinised industrial methylated spirit:

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 0½d.; 100 gall. and under 500 gall., 5s. 3½d.; 30 gall. and under 100 gall., 5s. 6½d.; 10 gall. and under 30 gall., 5s. 9½d.; 5 gall. and under 10 gall., 6s. 0½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 5d.; 30 gall. and under 100 gall., 5s. 8d.; 10 gall. and under 30 gall., 5s. 11d.; 5 gall. and under 10 gall., 6s. 2d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and methylated shellac finish, 1s. per gall. over the prices for pyridinised methylated spirit.

TERMS:—Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ACONITE — Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is from 17s, 6d. to 18s, per lb. Forward, April-May shipment, 15s. 9d., c.i.f., sellers.

ANISEED. — Chinese star is offered for shipment at 190s. per cwt., c.i.f.

Antimony. — English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

ASAFŒTIDA.-Persian block is from £10 to £12 per cwt., duty paid, as to quality. BISMUTH METAL.—Minimum rate is 16s. per Ib.

CALUMBA. — Ordinary natural sorts are quoted at 87s. 6d. per cwt, on the spot.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 200s., spot.

CARDAMOMS.—Easier. Aleppy greens are now 15s. 9d. per lb. on the spot; shipment offers are 15s., c.i.f.

CASSIA BARK. - Whole on the spot is about 92s. 6d. per cwt., in bond, and for forward delivery, 82s. 6d., c.i.f. Broken 67s. 6d., in bond, and 62s. 6d., c.i.f.

CHERRY BARK. — Scarce. Thin natural is from 1s. 10d. per lb., duty paid, and rossed, 2s. 3d., on the spot.

CHILLIES.—Mombasa are 300s. per cwt. on the spot, and 275s., c.i.f. Zanzibar are 280s., c.i.f. Sierra Leone not offering.

CINNAMON. — Ceylon for shipment (c.i.f.), per lb.; OOOO, 3s. 9d.; OOO, 3s. 7d.; O, 3s. 6d.; firsts, 2s. 7d.; seconds, 2s. 6d.; thirds, 2s. 5\frac{1}{2}d.; quillings, 1s. 8\frac{1}{2}d.; featherings. 1s. 1d.; chips, 5\frac{3}{4}d. to 6\frac{1}{4}d.

CLOVES.—Quiet. Zanzibar on the spot are 4s. 7½d. per lb.; prompt shipment, 4s. 2½d., c.i.f.

COCHINEAL. — Black brilliant is 9s, 9d. per lb.; and silver-grey, from 7s.

COLCHICUM.—Corms on spot are offer-

ing at 2s. 3d. per lb., and seeds, 6s.

COLOCYNTH.—Good quality pulp on the spot has been cleared. Price indicated for small parcel to arrive is about 2s. per lb.. duty paid.

ELEMI.—Offers are from 1s. 8d. per 1b.

on the spot and 1s. 6d., c.i.f.

ERGOT. — Quiet, Portuguese for prompt shipment is 16s, per lb., c.i.f. flominal. Spot material offered at 17s.

GALANGAL. — Spot material is about 80s. per cwt., with forward offers of 72s. 6d., c.i.f.

GENTIAN. — French natural on spot is 100s, per cwt., and from 92s, 6d, to 95s., c.i.f.; sliced, 115s, spot.

GINGER.—Very firm. African on the spot GINGER.—Very IIIII, AITICAL OIL III Spot is now 145s, per cwt, with shipment at 140s., c.i.f., nominal, Jamaican No. 3 has advanced to 200s, on the spot with new-crop from origin quoted at 195s., c.i.f.

Gum acacia. — Kordofan cleaned sorts on the spot are quoted at 120s, per cwt. prompt shipment, 112s., c.i.f.

HENNA.—Firm, Indian green leaves, old crop, are offered about 90s, per cwt. on the spot; shipment not offering. Sudanese are 100s., spot.

HONEY.-Steady. Australian light-amber is offered on the spot at 106s, to 112s, per cwt.; medium-amber 95s, to 100s. Argentine is from 115s, to 120s, and Jamaican, 120s. to 130s.

HYDRASTIS.—Root is 18s. per lb., on the

1PECACUANHA.—Nicaraguan for shipment is scarce at 48s, to 49s, per lb., c.i.f.; Colombian, 43s, c.i.f. Spot: Matto Grosso, 46s.; Colombian, 49s.; Nicaraguan, 54s.; afloat 50s.; spot, 53s, 6d., rominal. nominal.

MENTHOL. — Spot. Chinese is about 30s. 6d. per lb., duty paid, and for ship-

ment, 28s., c.i.f.

MERCURY.—Nominal spot value is from £64 10s. to £65 10s. per flask (76 lb.), ex warehouse.

MYRRH.—Aden selected sorts are quoted at £14 10s, per cwt, on the spot, Siftings are from £7 to £8.

Orris root.—Offers of Florentine good sorts are scarce at 180s. per cwt.

PEPPER.—White Sarawak is now offered at 6s. 8d, per lb, with afloat parcels from 6s. 6\frac{1}{2}d. to 6s. 7\frac{1}{2}d., c.i.f. Black Sarawak, special is 5s. 11d, per lb., spot; afloat, 5s. 9\frac{1}{2}d., c.i.f. Black Malabar, 725s, per cwt. spot and slightly firmer at 705s., c.i.f. for afloat.

PIMENTO.—Firm and scarce. Value of Jamaican on the spot is now 4s. 3d. per lb.

PODOPHYLLUM.—Peltatum is 336s, per cwt. on the spot. Emodi is 140s.

RAUWOLFIA (SERPENTINA). - Offers for prompt shipment are 5s., c.i.f.

RHUBARB.—Chinese. Rough round, high dried (A) has been offered about 8s, 9d, per lb. Smaller sizes of same quality not available.

SAFFRON. Mancha superior is about 155s. and selecta, 150s. per lb.

Sandarac.—Morocco is 12s, 6d, per 1b. on the spot.

SARSAPARILLA. — Jamaican native red is 2s, 9d, per lb. on the spot. Forward offered sparingly at about 2s, 6d., c.i.f.

offered sparingly at about 2s. 6d., c.i.f.

SEEDS. — Current rates (per cwt.) are:
ANISE. — Cyprian, 170s.; and Bulgarian,
170s., duty paid, spot London, CARAWAY.
—Firm. Durch now quoted at 165s., duty
paid, and 138s., c.i.f., London, CELERY.—
Quiet. Indian offering at 210s., spot.
CORIANDER. — Steady. Moroccan, 60s.,
duty paid (55s., in bond): English, 75s.
Shipment, Moroccan, 47s. 6d., c.i.f.
CUMIN. — Cyprian, 127s. 6d.; Moroccan,
127s. 6d., duty paid, and Maltese 130s.
DILL.—Indian remains firm at 90s., spot
London, FENNEL. — Indian offering at
125s., spot. FENUGREEK. — Moroccan,
48s. 6d., duty paid, spot London.
MUSTARD.—English is steady at 55s. to
75s. according to quality.

SENIGA. — Shipment quotations are

SENEGA. — Shipment quotations are 16s, 6d. per lb., c.i f., with spot material also offered at 16s, 6d.

SHELLAC.—Unchanged. Spot quotations are:—F.O.T.N. pure. 240s.; F.O. standard No. 1, 260s.; fine orange, 285s. to 330s. per cwt., ex-London warehouse.

STROPHANTHUS.—Kombé, 100 per cent. about 9s. per lb., on the spot, and Gratus, 16s.

STYRAX.—Spot is 5s. $7\frac{1}{2}$ d. per lb., duty paid.

TAMARINDS. - Supplies are now scarce with prices nominal.

Tragacanth.—No. 1 ribbon on the spot £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Firm. Business passing in Raiapore at 125s. per cwt., and Madras finger, 130s., nominal New-crop Madras for April-May shipment is quoted at 92s. 6d., c.i.f.

Uva ursi.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s, per cwt. on the spot and from 130s, to 145s., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb.) are:— 5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES.—BEES'.—Dar-es-Salaam. Spot, about 490s, per cwt. Sudanese and Abyssinian, 420s., c.i.f., and spot, 480s. CANDELILLA.—Spot is unchanged at 635s, per cwt. CANNAUBA.—Prime yellow on the spot is 1,010s. per cwt.; shipment 985s., c.i.f.; fatty grey is 710s. on the spot; shipment, 680s., c.i.f.

Essential and Expressed Oils

ANISE. Firm. Spot supplies are 9s. 6d. per lb., with shipment offers around 9s. 4d., c.i.t.

BERGAMOT.—Spot value is about 80s. per

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt, lots.

Bois de Rose. - Brazilian on the spot is 32s, 6d, and 30s, 9d., c.i.f.

CADE.—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

CAMPHOR, WHITE. — Chinese is 3s. 2d. per lb., on the spot.

Cananga. — Supplies to come forward are quoted at from 60s, per lb., c.i.f. Spot is from 62s, 6d, per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 22s, per lb., early shipment

CARDAMOM.—Price per lb. is from 370s. for English-distilled and 280s, for impor-

Cassia.—Original drums are about 10s. 6d. per lb. for spot and 9s. 3d., c.i.f.

Casror. — In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £141 per ton, naked, ex mill. Forward: April-May delivery, £138; May-July delivery the price is £133.

CITRONELLA. — Quiet. Prices (per lb.) are:—Ceylon, spot, 3s, 9d. per lb.; shipment, 4s., c.i.f.; Java, 6s., duty paid; shipment, 5s. 3d., c.i.f.; Formosa, 5s. 9d., duty paid, and 5s. 3d., c.i.f.

CLOVE. — Madagascar leaf is firm at 12s. per lb., duty paid, and 10s.. c.i.f., for shipment. Redistilled stem oil, from 17s. 6d., and English distilled bud oil is now offered at 55s.

CORIANDER.—Russian-seed oil is lower at from 115s. to 120s, per lb., and Dutch at 110s.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported, 60s.

DILL. — B.P. English-distilled oil is quoted at 60s, per lb. Imported oils are offered at from 30s. to 46s, per lb., as to origin.

G'NGER. — English-distilled oil is from 120s, per lb. Imported oils are available at from 80s, to 90s, per lb.

Hydnocarpus. — Spot is offered at 2s 2d. per lb.

LAVANDIN. — Spot values are from 13s. 9d. to 16s. per lb., as to quality.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 33s. per lb. LAVENDER SPIKE. — Spanish is about

11s. 6d. per lb.

LEMON,—B.P. (4 per cent. citral) on the spot is 38s. to 39s. per lb.

LEMONGRASS.—Firm. East Indian is now 10s. per lb. on the spot and 10s. 1d., c.i.f., for shipment,

OTTO OF ROSE.—Anatolian is offered on the spot at 300s. per oz., and Bulgarian, 480s, ex warchouse.

PALMAROSA. — East Indian is from 42s, 6d. per lb., on the spot, and 42s., c.i.f. for prompt shipment. Formosan. 27s. 6d., spot.

PATCHOULI. — Penang for shipment is 48s, per lb., c.i.f. with spot offers at 56s., duty paid.

PEPPERMINT. — Arvensis: Chinese is about 19s. 3d. per lb., spot, and 18s., c.i.f., March-April shipment: Brazilian (45 per cent.), 16s. spot; forward, 15s. 6d., c.i.f. Italian "Mitcham" type oil is from 47s. 6d. to 52s. 6d. per lb. on the spot.

SAGE.—Spanish is offered at from 9s. 6d. per lb. and Dalmation at 50s., duty paid.

SPEARMINT.—Offers of U.S.P. quality at from 54s. per 1b.

TITREE.—Spot supplies are offered at 14s.

TRADE MARKS

From the "Trade Marks Journal," February 10 For medical and surgical plasters (5) LASSO, 724,883, by Herts Pharmaceuticals,

Ltd., Welwyn Garden City, Herts.

For medicinal preparations for gastric ailments

VENESE, 725,280, by Ventin & Odone Medicinal Products, Ltd., London, N.10.

For sutures (10)

PLASTASUTES, SUTURSIL, 723,956, B723,958, by Chas. F. Thackray, Ltd., Leeds.

For non-medicated toilet paper, tissues, serviettes and handkerchiefs (16)

VELCREPE, B716,782, by Velvet Crêpe Paper Co., Ltd., Alperton, Middlesex.

For hair grips, clips, clamps, pins and curlers

TEMPERA, 725,079, by Wella Rapid, Ltd., London, N.W.1.

From the "Trade Marks Journal," February 17

For agricultural and horticultural chemicals (1) or agricultural and normality elements (1) AMMOKAY, 724,399, by Imperial Chemical Industries, Ltd., London, S.W.I, COMPLE-SAL, 725,847, by Farbwerke Hoechst, A.G., vormals Meister Lucius & Bruning, Frankfurtam-Main-Hoechst, Germany.

For truit essences (essential oils) (3) FRUTAROM, 718,574, by Hertz & Selck, Hamburg, Germany.

For non-inedicated toilet cream (3) HUSSIF, B719,227, by Ronald Herbert Mascall, Leeds.

For soap powder (3)

PURO, B724,281, by Puro Soap Co., Ltd., Leeds.

For hair lotions (3)

WAVE CREST, 724,608, by Wavecrest Hair Products, London, S.E.19.

For detergents (3)

SYNDORA, 725,072, by Laporte Chemicals, Ltd., London, W.1.

For non-medicated toilet preparations (3) Label device of two birds and bird-bath, 725,304, by Bourjois, Ltd., Croydon, RE-MOLDINE, 725,337, by Dorothy Gray, Ltd., London, S.W.20.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, March 8

ENFIELD CHEMISTS' ASSOCIATION, visit to pharmacy department, Chase Farm Hospital, Enfield. Meet at main entrance of the hospital at 7.30 p.m.

Norwich Branch, Pharmaceutical Society, Assembly House, Theatre Street, Norwich, at 7.15 for 7.45 p.m. Mr. W. R. Roberts (chief inspector, Pharmaceutical Society) giving "A Commentary on Poisons Law,"

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. F. C. Highfield (one of the Society's inspectors) giving "General Comments."

Tuesday, March 9

HOUNSIOW BRANCH, PHARMACEUTICAL SOCIETY, conference room, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, at 8 p.m. Dr. D. S. Morris on "The Organic Chemist in the Pharmaceutical Industry."

Wednesday, March 10

PHARMACEUTICAL BIRMINGHAM ASSOCIATION. Botanical Gardens, Edgbaston, at 6.30 for 7 p.m. Annual dinner and dance.

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Victoria Hotel, Bradford, at 7.30 p.m. Annual dinner and dance, Ticket 25s, from Mr. B. W. Moss, 258 Bowling Old Lane, Bradford, 5.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH. PHARMACEUTICAL SOCIETY, The Institute of Chartered Accountants, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Mr. O. H. Waller (Editor, The Chemist and Druggist) on "The Production of a Weekly Technical Newspaper."

HASTINGS BRANCH. PHARMACEUTICAL SOCIETY, Sackville Hotel, Bexhill-on-Sea, at 7.45 p.m. Annual dinner and dance.

HULL CHEMISTS' ASSOCIATION and BRANCH, 1mperial Hotel. Hull, at 8 p.m. Mr. A. G. Chamings (Ciba Laboratories, Ltd.) on "Newer Drugs and the B.P. 1953." Talk Ltd.) on Talk

illustrated by a film "Modern Drugs in the Making,'

THAMES VALLEY PHARMACISTS' ASSOCIATION, Casino, Hampton Court, at 6.30 for 7 p.m. Annual dinner and dance.

WOLVERHAMPTON CHEMISTS* ASSOCIATION, Y.M.C.A. hall, Stafford Street, Wolverhampton, at 7.30 p.m. Address by Mr. F. C. Wilson (a member of the Council, Pharmaceutical Society).

Thursday, March 11

BRANCH. PHARMACEUTICAL BRISTOL SOCIETY. School of Technology, Unity Street, Bristol, 1, at 7.15 p.m. Sound and colour film of the port of Bristol, introduced by a member of the staff of the Port of Bristol Authority.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.30 p.m. Film show by Imperial Chemical (Pharmaceuticals), Ltd.

Advance Information

JUNIOR BRANCH, MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, are walking via Whaley Bridge and the Goyt Valley on March 14.

NATIONAL PHARMACEUTICAL UNION, Esplanade Hotel, Porthcawl, Glam, Welsh national meeting, March 13-14, At 8.30 p.m., March 13, reception. At 11 a.m. March 14, special service at All Saints' Church. At 2.15 p.m. March 14, ladies' excursion, At 2.30 p.m. March 14, national meeting, Agenda: General N.P.U. and National Health Service matters; Prescription pricing problcms in Wales; Pharmaceutical problems in rural areas; Chemists Federation matters; Resolutions from N.P.U. branches in Wales. Tickets (church service, free; luncheon, 7s. 6d.; excursion, 8s. 6d.; national meeting, free; buffet tea for those attending meeting, 2s. 6d.) can be obtained from Mr. G. T. M. David, 1 Cradock Street, Swansea,

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN is holding a film evening in London on March 15. The following films and film strips are being shown: "Ascptic Transfer," "Belladonna" (film strip), "Bacterium Coli" and "Historical Pharmaceutical Objects (film strip), The films have been prepared to suggestions made by the Society's films committee and are being introduced by Mr. A. G. Fishburn, F.P.S. (chairman of the committee).

C. & D. WEEKLY LIST OF PRICE CHANGES

A—Advanced; R—Reduced; I.R.P.—Inclusive Retail Price; *—Tax 25 per cent.; †—Tax 75 per cent.

A A 0	anced, K—Kedde
THE CROOKES LABORATO (from March 1) Crookes hand cream,	ORIES, LTD. 1.R.P.
1-oz. tube	2 7½ R
DUNCAN, FLOCKHART & C	O LTO
Haemamol, 1-lb. carton	5 0 A
	, LTD. (from
	6 7 11 R
RACASAN, LTD.	
Sanitary fluid, 1 pt.	3 3 A
2 pt.	3 3 A 5 9 A
4 pt.	9 0 A
1 gall.	15 6 A
Chemical toilets, popular	59 6 A
metal lid for	5 6 A
universal	82 6 A
porcelain	177 6 A
WALLACE MANUFACTURING LTD. (from March 1)	G CHEMISTS,
Taumasthman tablets, 10	1 6 R
60	7 6 R
250	23 3 R
250	23 3 K
P.A.T.A. PROTECTE	D LIST

(Prices notified this week by the Proprietary Articles Trade Association).
E. C. De WITT & CO., LTD. (from February 15)

Great British—

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Terms for £6, £12 and £20 parcels on application.
General terms: Four months' credit, Cash discount of 2½ per cent. for settlement within ten days from date of invoice, £3 window display parcels less 7½ per cent. for fourteen days' display.

Northern Ireland—

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orthern	Ireland—	Doz.			
1s. 3d.	lines*	11 3	1	6	A
ls. 4d.	lines*	12 0	1	7	A
1s. 5d.	lines*	12 9	1	9	A

15. Su. Imcs	14		0 71
2s. 6d. lines* *	22	6 3	0 A
2s. 9d. lines*	24		3 A
3s. 4d. lines*	29	0 4	0 A
4s. Sd. lines*	41	0 5	6 A
5s. 6d. lincs*	48	0 6	6 A
£6 parcels less 5 per c	ent, £12	parcels	less 7‡
per cent. £20 parcels le	ss 10 pe	r cent.	Terms:
Four months' credit, C			
cent, for settlement wit			
of invoice, £3 window			
to 7½ per cent, discount			
play.		receir day	
P			
WILLIAM FREEMAN	& CO.	. LTD.	(from
March 1)		,	(110111
The state of the s			

Suba-Seal hot water bottles:				
Giant	84	0	10 6	R
Streamlinc	71	6	8 11	R
Streamline junior	55	6	6 11	R
Cot	31	6	3 11	R
Comet	63	6	7 11	R
Children's bottles (bear				
cub, doll and dog toby)	55	6	6 11	R
(Father Christmas,				
father bear, speed boat				
and motor car)	71	6	8 11	R
Addition:-				
Pennant standard size				
screw type h,w, bottle				
with handle	55	6	6 11	

NEW PRODUCTS A	NE) PA	CK	S
ALLEN & HANBURYS, LTD.				
Alficetyn chloramphenicol				
crcam. 1-oz. tube	42	0	5	3
B.C.B., LTD.	Do			
Western Glory hand jelly†	8	0	1	6
baby balm*	12	0	1	9
Wesco adult cherry cough				
mixture*	12	0	1	9
infant teething and bronchitis				

mixture* Fullers earth	12 4	0	1	9	
Dr. Brown's cough bottle*	21	8	3	0	
CONTINENTAL TRADE	CO	NSU	JLTA	NT	•
Coronal cleansing cream†			6	0 6	
astringent cream†			8	6	
foundation cream† night cream†			6 7		
Consul skin tonic† face powder†			7 5 9	6	
perfume†			12	6	
COUNTY CHEMICAL CO Chemico lavatory cleanser	., I	лD.	1	3	
DALMAS, LTD.	Ea	ch			
Elastic first-aid dressings cabinet No. 2	7	6	10	6	

F. W. HAMPSHIRE & CO., LTD.

Dor cream dcodorant*	tin		9
	jar	1	6
GEDEON RICHTER (G	REAT	BRITAIN),	
Ganlin tablets, 50		4	6
500		39	0
injection, 25 mgm. per	c.c.,		
1-c.c. ampoules, 12		6	6
25-c.c. vial		4	0
50 mgm, per c.c.,			
1-c.c. ampoules, 12		6	9
25-c.c. vial		4	6
100 mgm, per c.c.,			
1-c.c. ampoules, 1	2	7	0
25-c.c. vial		7 5 4	6
Imbal tablets, 25			9
100		15	
250		36	0
1,000		128	
Thricin tablets, tube of	20	2	6
bottle of 2		20	0

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the original isoniazid

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a new analgesic longer acting than morphine

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synthetic vitamin A with no unpleasant taste

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The DOIDY Cup is popular because it not only functions as the "best ever" cup for baby up to

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Me and MITOPAGE what a team!



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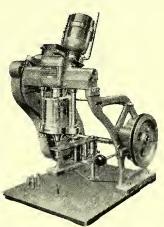
* The range includes:

Weighing Ampoule Washing Screw Capping
Filling Ampoule Filling Cellophane Wrapping
Bag Packaging Ampoule Cutting Strip Tabletting
Cartoning Vial Filling Tablet Counting
Tin Filling Cappine, Corking Satchet Making
also Bunging

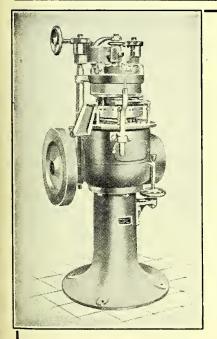
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This Powder filling machine is specially designed for the handling of fine chemicals such as Sulpha drugs, Penicillin, Streptomycin, etc., into vials or ampoules. Fowder is delivered well into the

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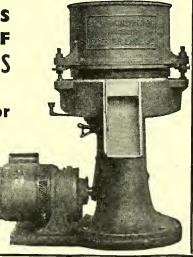


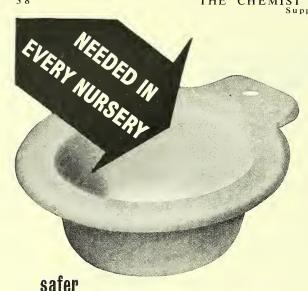
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WE introduced Wisdom Flextron toothbrushes only a year ago. Yet already Flextron sales are running higher than those of all other brands except one. Dear Sirs.

2.2.54

You may be interested to learn of my experience with one of your "Flextron" Tooth Brushes—in my opinion it is worthy of recording. I purchased this brush (Hard bristles) in mid-June last year, after reading your advertisements, and only now after eight months continual use — 4 times daily — is it reaching the end of its life. I think the poor old chap has more than earned its retirement, as the bristles are somewhat flattened, but during all this time not a single one has come out. To me this is positively astonishing, as previously I have tried —, —,* your earlier brushes, and other makes, and in all cases they have been unusable after two months. After this experience there will only be one Tooth Erush for me in the future—a "Flextron," and if my next gives me half the service of the one named, I shall be delighted.

I thought you might be glad to read of the success of your new venture, and if you care to use extracts from this letter for advertisement purposes, you may do so provided my name and address are deleted.

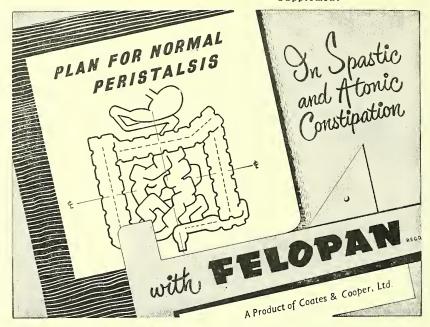
*The writer mentions two well-known brands

There is little doubt that this year sales will be much higher still. And remember, when you sell Flextron not only do your customers get a better brush, but you make a better profit.

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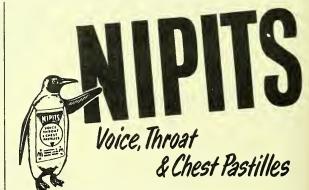
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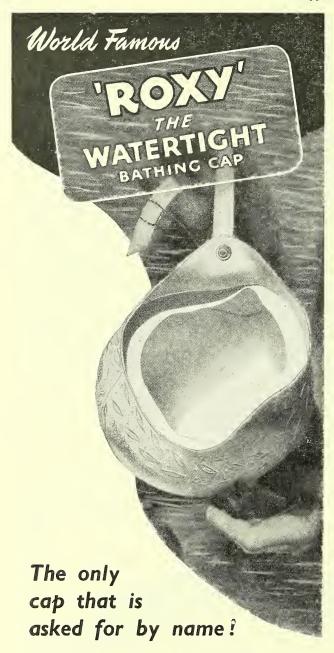
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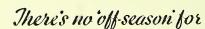
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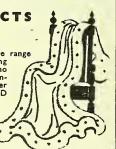
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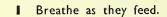
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BOURNEMOUTH CHEMIST, main-road shopping parade. Costly modern fittings; attractive shop, dispensary; would show about £1,100 net profit under owner-manager; new lease; £2,250 including stock, Rumsey & Rumsey, Estate Agents, Bournemouth. C 4998 DONCASTER, main road pharmacy with good class passing trade. Turnover at pre-ent £10,000 p.a. but with scope for increase. Full wine licence and living accommodation. For further details apply Box C 4996.

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18/- per half-inch (min.) and pro rata.
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HOSPITAL, PARK ROYAL,
N.W.10
Senior Pharmacist
required to take charge of an up-to-date Sterile
Products Department in a large general Hospital. Salary on Whitley Council scale, plus
London Weighting. Applications, with full
part.culars to Chief Pharmacist. C 6596

FPSOM DISTRICT HOSPITAL

EPSOM DISTRICT HOSPITAL,

DORKING ROAD,

EPSOM, SURREY

Senior Pharmacist or Pharmacist
non-resident, required April 1 to act as assistant
to Chief Pharmacist in the Epsom Group Pharmaceutical Department, Salary in accordance
with Whitley Scales £525 x £25-£625 per
annum (Senior Pharmacist), £450 x £25-£575
per annum (Pharmacist) plus London Weighting.

Applications, stating age, qualifications and experience, with names and addresses of two referees should be sent immediately to Group Secretary at above address.

EVELINA CHILDREN'S HOSPITAL OF GUY'S HOSPITAL, SOUTHWARK BRIDGE ROAD,

Salary and conditions of service according to Whitley Council agreement, meals available at a deduction of £25 per annum, Interesting and varied work in a pleasant department. Previous hospital experience not essential. Apply to the Hospital Sccretary with names of two referees.

HULL (A) GROUP HOSPITAL MANAGEMENT COMMITTEE Pharmacist Pharmacist

Applications at PHARMACIST.

PHARMACIST.
Salary and conditions of service in accordance with the Pharmaceutical Whitley Council decisions, £450 x £25—£575 per annum, plus a special allowance of £25 per annum for recognised higher qualifications. The post is also subject to the National Health Service Superannuation Regulations.

Applications to the Hospital Secretary, C 6577

ROYAL FREE HOSPITAL GROUP

Locum Pharmacists
required for holiday relief and other duties.
Salary £12 12s. per week. Applications, together
with names of two referees, should be addressed
to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, London, W.C.1.
C 6591

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1 Pharmacists

Vacancies exist at the above Hospital, Salary in accordance with the Whitley Council scale, Write enclosing two copies of testimonials to the Pharmacist.

C 6617

SOUTH MANCHESTER H.M.C.
WITHINGTON HOSPITAL,
MANCHESTER, 20
Pharmacist
Applications are invited for the post of pharmacist which offers a wide variety of experience in a well equipped pharmaceutical department. Salary and conditions of service in accordance with Whitley Council agreements. Applications stating age, qualifications and experience, together with the names of two referees to be sent to the Administrative Officer at the Hospital immediately.

SPRINGFIELD HOSPITAL.

SPRINGFIELD HUSPITAL, UPPER TOOTING, S.W.17

Pharmacist
Salary on Whitley Council Scale £450 x £25—
£575, plus London Weighting, Apply, stating age, qualifications and experience to Group C 6623

SUMMERFIELD HOSPITAL, WESTERN ROAD, **BIRMINGHAM 18**

BIRMINGHAIVI 10
Pharmacist (Category I)
required at this Chronic Sick Hospital, Salary
and conditions as prescribed by the Pharmaceutical Whitley Council, Detailed applications,
giving names of two referees, to the Hospital
Secretary.

C 6595

THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1 Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£575) plus London Weighting, £25 for recognised higher qualification, Apply by letter to Chief Pharmacist.

THE MILLER GENERAL

THE MILLER GENERAL
HOSPITAL (Cat. III)
Senior Pharmacist and Pharmacist
Applications are invited for the posts of
SENIOR PHARMACIST and PHARMACIST
in a well-equipped pharmaceutical department
at the above hospital. Inspection of the department may be made by arrangement with
Chief Pharmacist.
Salary and conditions of service as laid down
by the Pharmaceutical Whitley Council.
Applications giving full details should be made
to the Secretary, G. & D./H.M.C., St. Alfege's
Hospital, S.E.10, as soon as possible. C 6618

THE LONDON HOSPITAL, WHITECHAPEL, E.1 Pharmacist

Vacancy for above. Applicants must be registered Pharmacists, Salary scale £450 (age 23) x £25 to £575 according to previous experience and service. Dining room facilities available, Write Sccretary.

C 179

UPTON HOSPITAL,
SLOUGH, BUCKS
Senior Pharmacist
required at this General Hospital where there are busy Out-patient Clinics, The department is equipped with facilities for manufacture and sterile work which is increasing as the hospital grows in size. Whitley Council salary.
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SITUATIONS OPEN

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The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 acclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

RETAIL (HOME)

APPLICATIONS are invited from qualified men for position as branch manager of long-established pharmacy in village near Mansfield, Notts. Salary with allowances in excess of £800 per annum. Exceptional house available. Permanent and pensionable position. Apply by letter to Pleasley and Pleasley Hill Co-operative Society, Ltd., nr. Mansfield, Notts. C 4971 CANNOCK CHASE. Pharmacist assistant required. Dispensing and counter, No Sunday, half-holiday or rota duties, Permanency under comfortable conditions. Two other assistants employed, Details, please to Lloyd Williams, Chemist/Optician, 96 Market Street, Hednesford. 'Phone 134. C 4980 EALING. Excellent opportunity for energetic pharmacist to manage nicely fitted branch in pleasant suburban area. Generous salary and monthly bonus. Excellent self-contained flat available near to branch. Good supporting staff, Permanency with generous sickness benefits and pension fund, Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 4961 ILFORD. Pharmacist required to manage expanding branch close to busy main line station, Up-to-date dispensary and excellent supporting staff, Nice redecorated self-contained flat or six-roomed maisonette available within easy distance of the branch. Attractive salary and bonus scheme. Permanency with superannuation and sickness benefits, Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10, C 4960 LONDON, S.W., SUBURB. Wanted, lady assistant for counter and display, Some experience necessary. Good residential neighbourhood. Apply Box C 1000. ence necessary, Good hood, Apply Box C 1000,

Situations Open—Continued

LONDON, S.W. Wanted, assistant for dis-pensing chiefly. Congenial post in pleasant neighbourhood. Apply Box C 4999. MANAGER REQUIRED for large old-estab-

pensing chiefly. Congenial post in pleasant neighbourhood. Apply Box C 4999.

MANAGER REQUIRED for large old-established pharmacy in main shopping centre Streatham. Permanent progressive job for experienced man capable of complete control including buying. Minimum salary and commission £1,000 p.a. No living accommodation. Phone Battersea 8113 or write Box C 4992.

NEWPORT MON. Superintendent pharmacist required. Congenial, permanent position with accommodation. Write, giving full particulars in first instance to Box C 4974.

NORTH LONDON. Unqualified dispensing assistant required for branch at Edmonton. Salary, plus bonus. Three weeks holiday a year. Regret no living accommodation, Full details at interview. Apply with full particulars of experience to Box C 6589.

NORTH LONDON. Unqualified assistant required as dispenser for pharmacy near Angel, Edmonton, Hours 9 a.m. to 6 p.m. Permanency. Salary and bonus. Three weeks holiday a year. Apply with full details of age and experience to Box C 6632.

OXFORD. Pharmacist required to work with proprietor and take charge when necessary in good-class pharmacy; good experience essential; accommodation available, Commission basis considered after trial period. Write, giving full details of age, salary required, references, and photo if available, to W. K. Westlake, 255 Banbury Road, Oxford.

PART-TIME ASSISTANT required, Qualified lady or gentleman for City business in Manchester, State terms. Box C 4997.

PERMANENT POSTION is offered to a keen unqualified assistant with good dispensing experience for rel'el duties at branches all situated in North London, This position offers variety, excellent experience with good salary and three weeks holiday a year. Regret no living accommodation. Apply with full particulars of previous experience to Box C 6590.

in North London, This position offers variety, excellent experience with good salary and three weeks holiday a year. Regret no living accommodation. Apply with full particulars of previous experience to Box C 6590, PHARMACIST, male or female, required for business in Liverpool City area. Congenial position, permanency, Please state age and salary required. Applications will be treated in strictest confidence. Applie Box C 4990, QUALIFIED (either sex) required as r.1mf manager for branches, good opportunity of gaining varied experience for newly qualified pharmacist, good salary, permanency. Apply to R. E. Ridley, e/o Browns Chemists, Ltd., 48 Piccadilly, Hanley, Stoke-on-Trent. C 4949 SMETHWICK (near Birmingham), Pharmacist manager required for busy medium-class dispensing business, Good supporting staff, No Sunday or Bank Holiday duties, £18 weekly salary offered. Apply to E. Tranmer, M.P.S., 42 High Street, Smethwick, C 4989 SOUTH COAST. Unqualified assistant required for coastal pharmacy. Must be experienced in photography, capable of selling high-priced cameras and accessories, projectors, recording machines, etc. This is a permanent position with good prospects and congenial working conditions, Apply with full details of previous experienced counter, cosmetics and some dispensing, Apply by letter, W. J. Boyes, Ltd., 61 Balham Hill, S.W. 2. C 4986

LOCUMS WANTED

EAST MIDLANDS. Qualified locum required for any two consecutive weeks between August 9 and September 4 at our March branch, Light duties and adequate staff. Accommodation arranged if desired, Give dates and state terms to the Superintendent Chemist, Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough. LOCUM. Pharmacist lady or gent to two weeks June or July. Good accommodation arranged if necessary. Springate & Harrison, Ltd., The Brent Pharmacy, 15 The Brent, C 4988 LOCUM PHARMACISTS required for London LOCUM PHARMACISTS required for London and suburban areas, long or short periods March to October, Permanency at conclusion of tour if desired, Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist. London Co-operative Chemists, Ltd., Granze Road. Leyton, E.10. C 4962 QUALIFIED locum required for two or three weeks during June, July or August, H. C. Walker (Chemist), Ltd., 73 Bloemfontein Road, W.12. Shepherds Bush 5442. C 4963

RETAIL (OVERSEAS)

QUALIFIED MANAGER required for overseas, preferably not over age 35 and well experienced in retail pharmacy. Knowledge of optics an advantage but not essential. The appointment is in British West Africa at one of the branches of an old-established firm of wholesale and retail chemists with registered offices in England, Furnished accommodation is provided free as is also medical attention. Contributory pension scheme in operation, Tour of short duration with generous home leave on full pay. Salary (subject to low rates of income tax) to be discussed at interview also initial tropical kit allowance. First-class passage paid outward and homeward for successful applicant, if married to include wife. Apply stating age, whether married or single, when free to proceed by air if appointed also full details of qualifications and experience to Box C 4976, OUALIFIED MANAGER required for over-

WHOLESALE

A SALES REPRESENTATIVE for medical specialities and bulk pharmaceutical chemicals is required to call on Hospital Pharmacists only. Appl.cants should be pharmacists with experience in either hospital or retail pharmacy and preferably resident in London or the Home Counties. They should be prepared to work on their own initiative, Remuneration will be above average and a car will be supplied. Applications, which will be treated in the str. ctest confidence, should contain full details of education, age and career, and should be sent marked "Confidential" to Mr. R. H. Kenyon, Director, Pharmaceutical Laboratories Geigy, Ltd., Tenax Road, Trafford Park, Manchester.

C 6621

A VACANCY OCCURS in the medical depart

chester. C 6621

A VACANCY OCCURS in the medical department of Messrs, Boots Pure Drug Co., Ltd., for a young man with scientific background (pharmacist preferred) to prepare literature for the information of the medical profession and abstract reviews under medical direction. The abstract reviews under medical direction, in a successful candidate will be eligible for the company's permanent staff and pension scheme after a satisfactory probationary period and the passing of a medical examination. Apply to the Personnel Manager, Station Street, Nottingham, stating age, qualifications and examination.

Nottingham, stating age, qualifications and experience.

A WEIL-KNOWN London Drug House require an energetic young man as junior representative Retail experience essential. Apply giving details of past experience, Box C 6610.

ALLEN & HANBURYS, LTD., Ware, Herts, have a vacancy for a pharmacist with good academic qualifications and some experience in pharmaceutical formulation. The post is pensionable. Five-day week, Applications, giving details of age, education, qualifications and experience, to Personnel Manager. C 6639

AN EXCEPTIONAL OPPORTUNITY arises in an old-established firm of manufacturing and wholesale chemists in South Midlands for a qualified chemist about 35 years of age. Wholesale experience and a good record as a representative is essential. The post offers excellent prospects for the right type of man with ability, ambition and initiative. Candidates should possess a comprehensive knowledge of ethical specialities, Application in own handwriting giving age, full personal details, education and experience, together with recent

tion and experience, together with recent photograph if available, to Managing Director, Box C 4981.

AN OPPORTUNITY presents itself for a technical chemist with the knowledge of the manufacture of fine pharmaceutical chemicals to secure a financial working interest in a London construction of the components of the c facture of fine pharmaceutical chemicals to secure a financial working interest in a London manufacturing concern which has a great opportunity for expansion. In confidence please communicate in writing with Edward & Childs, Solicitors, 112 Fenchurch Street, E.C.3. C 6631 ASSISTANT to the sales manager is required by nacionally-known manufacturing chemists and distributors in London. The appointment calls for a comprehensive experience of the retail and wholesale pharmaceutical and allied trades. Men with a good record "on the road" and with a real flair for administration and who are willing to spend a good deal of time travelling away from London are invited to annly to Box C 6625.

ASSISTANT ANALYSTS required by London Pharmaceutical Company. Interesting work with reasonable prospects. Good conditions and excellent canteen facilities. Apply with full details of age, experience and salary required to Chief Chemist, Menley & James, Ltd., 120 Coldharbour Lane, London, S.E.5. C 6624

A SHIPPING CLERK required, fully experienced in make-up of f.o.b, and c.i.f. costings and economies for drugs and galenicals, Knowledge of overseas import regulations essential. Salary £600-£700 depending upon qualifications, Apply Box C 6645.

BENGER LABORATORIES, LIMITED, invite applications for additional medical representa-tives for the following territories:—1. Edin-burgh and North-east England. 2. South Lon-don and Kent, 3. Gloucester, Bristol and South-west England. Applicants must have pharmaceutical qualifications, and should reside in the area in which they are interested. These in the area in which they are interested. These positions are permanent and progressive. Contributory pension scheme. Car provided. Applications, which will be treated in confidence, should give fullest details of age and experience and be sent to Marketing Controller, Benger I. aboratories, Ltd., Holmes Chapel, Cheshire.

Benger Laboratories, Ltd., Holmes Chapel, Cheshire.

C. 6615
C. L. BENCARD, LTD., invite applications for a medical representative in the territories, comprising (1), Derbyshire, Staffordshire and Leicestershire; (2), Manchester and S.E. Lancashire, Preference given to candidates who have experience in this work, Remuneration is by salary with all expenses paid. Company car provided, Fension schemes in operation. Written applications should give full particulars in confidence to the Sales Manager, Minerva Road, Park Royal, N.W.10.

CHEMIST REQUIRED by cosmetic company, Must become thoroughly familiar with all details of manufacture and willing to take up permanent position abroad. Box C 1004.

CULLINGFORD OF CHELSEA require a first-class representative for the West of England to take over and develop their connection, mainly with chemists and stores. Applicants having the necessary qualifications are requested to write to the Sales Manager at Chelsea, London, S.W.10.

C 6588

EVANS MEDICAL SUPPLIES, LTD., have

to write to the Sales Manager at Chersea, London, S.W.10.

C 6588

EVANS MEDICAL SUPPLIES, LTD., have vacancies for medical rep.e.cntatives for Lanca-hire and South Yorkshire. Applicants should postess a pharmaceutical qualification and should not be over 35 years of arc. Residence on the territory will be desired, Car provided. Pension scheme in operation. Full details of education, experience and qualifications to Home Sales Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

C 6611

LANCASEIRE. A graduate in pharmacy or a pharmaceutical chemist is required by a progressi-e company in the appointment of assistant chemist, Duties include work in the analytical and research laboratories, together with some supervision of staff, Applications are invited from men between 25 and 35 years of age. Fullest details may be given, as all communications will be treated in strictest confidence, Box C 6627.

LANCASHIRE. A well-known ethical house requires the services of a first-class man as

LANCASHIRE. A well-known ethical house require the services of a first-class man as medical representative to take over their estab-

medical representative to take over their estab-lished connection on this territory, Previous experience while desirable is not essential but applicants must have a sound pharmaceutical background, reside on territory and be car owner. The position offers salary, commission and expenses and is pensionable. Write in full confidence to Box C 6578.

MARKETING EXECUTIVE. Benger Labora-tories Ltd. invite applications from pharma-

tories, Ltd., invite applications from pharma-cists for an appointment at their Head Office. The work includes all aspects of the home and overseas marketing of pharmaceutical products overseas marketing of pharmaceutical products in ethical, consumer and veterinary fields. The appointment offers considerable scope for progress, is permanent and pensionable. Applications, which will be treated in confidence, should give fullest details of age and experience, and be sent to the Marketing Controller, Benger Laboratories, Ltd., Holmes Chapel, Cheshire.

Cheshire. C 6635
MAY & BAKER, LTD., Dagenham, Essex, invite applications from pharmacists, aged 25-30, for a progressive position in their pharmaceutical chemical sales division. Excellent prospects of responsible executive appointment eventually for successful applicant, Five-day week. Salary £750-£850. Contributory pension scheme. Apply initially in writing, giving full details of qualifications and experience to the Personnel Officer. C 6612
MEDICAL REPRESENTATIVE required by

Personnel Officer. C 6612

MEDICAL REPRESENTATIVE required by London house to visit doctors, hospitals and chemists in Yorkshire, Northumberland and Durham. Applicants must have a good pharmaceutical background and a knowledge of medical terminology. Men between the ages of 25 and 35 are invited to apply, and details of age, experience and salary required should be stated, Box C 181.

SALES EXECUTIVE

RIKER LABORATORIES LIMITED

have an opening for an ambitious young executive experienced in the preparation of technical literature, the organising of advertising campaigns and general sales promotion of "ethical" medical products.

The position offers the opportunity of joining a young and progressive company and carries good prospects. A pensions scheme is in operation.

Applicants, who should possess a pharmaceutical or equivalent qualification please apply in writing to the Managing Director, Kirkewhite Street, Nottingham. C 6626

CHEMIST REQUIRED

for important NORTH OF ENGLAND COMPANY OF MANUFACTURING PHARMACEUTICAL CHEMISTS

Important firm manufacturing pharmaceutical products, ointments, tablets, salines, pill-coating, etc., requires experienced production chemist with organising ability and energy and able to control and direct staff.

The appointment has considerable possibilities and scope for the right man. Good salary in accordance with ability and experience. Write with fullest particulars of training and appointments held, including present company (in confidence). Also salary expected, Apply Box C 6646.

Situations Open—Continued

MEDICAL REPRESENTATIVE required to carry an ethical speciality on an agency basis. For details apply Box C 1001.

MEDICAL REPRESENTATIVE (male or female). Manufacturers of ethical medicinal preparations will shortly be expanding their representative staff, and will have vacancies for medical representatives to contact doctors, hospitals and chemists in several parts of the country, including London, East Anglia, North and East Midlands and Lancashire, Applications, giving full details of past work and experience in medical representation, if any, should be sent to Box C 6581.

MEDICAL REPRESENTATIVE. Applications are invited by well-known London house for the position of medical representative on the territory comprising the Tyne and Tees areas. Previous experience of this work is not essential but candidates must have a good pharmacutical background, reside on and know the territory well. Remuneration is by way of salary, commission and expenses and an attractive pension scheme is in force. Apply Box C 6594.

MEDICAL REPRESENTATIVES. A leading

MEDICAL REPRESENTATIVES. A leading ethical house wishes to expand its force of medical representatives and in witter applications from pharmacists or those with suitable technical qualifications for vacancies in London and Edinburgh, The company will give the fullest assistance in respect of training to successful applicants. A car will be provided and all expenses paid. Salary will be based on experience and the position is progressive and supported by a good contributory pension scheme. Our own staff have been advised. Applications, which will be treated in strictest confidence, should give details of age, education and experience to date, and be forwarded to Director. Box C 6614.

MEDICAL REPRESENTATIVES: Lederle Laboratories wish to make additional appointments to their medical representative personnel for all areas in the United Kingdom. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience, with an ethical house, of detail work among doctors and hospitals. Congenial, well paid posts backed by outstanding products and first-class promotional material, Liberal expenses, company car supplied, Fullest details in writing to Sales Manager. Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, Aldwych, London, W.C.2.

C 6607

MIDLANDS REPRESENTATIVE required. Permanent position offered by progressive manu-MIDLANDS REPRESENTATIVE required. Per-

wycn, London, W.C.2.

MIDLANDS REPRESENTATIVE required. Permanent position offered by progressive manufacturing house to experienced man of ability. Live existing connection. Appl.cants must reside on territory and provide own car. Salary, commission and all expenses paid. Contributory pension scheme, Full details of past experience, etc., in first letter to Box C 6633.

PHARMACIST preferably with manufacturing experience required for small proprietary medicine business. Write stating age and experience to Managing Director, George Eade, Ltd., 232 Goswell Road, London, E.C.1. C 183 REPRESENTATIVE required by old-established Drug House for the counties of Lancashire and Yorkshire. A very strong connection already exists but the gentleman we require must be experienced and very well known on the territory. Salary and commission should total at least £1,000 p.a. Expenses paid and a car provided. Apply, Sales Manager, Box C 4964.

POTTER & MOORE, LTD., have a vacancy for a first-class perfumery and toilet preparations representative residing in Birmingham area to cover the Midlands and South Wales, Must have a good connection with chemists, stores and wholesalers. This is a superannuated appointment carrying good salary, commission, etc. Car supplied. Apply by letter with full particulars as to age, previous experience, etc., to Lavender House, London, E.10. C 6634 PROCESS WORKER required by Wright, Layman & Umney, Ltd., for the manufacture of ointments, creams, etc. Previous experience essential. Apply with full particulars and references to 66-76 Park Street, Southwark, S.E.1. C 6640 PROCESS WORKERs required for tinctures, POTTER & MOORE, LTD., have a vacancy

PROCESS WORKERS required for tinctures,

PROCESS WORKERS required for tinctures, ointment and general pharmaceutical preparations for new factory in Birmingham. Apply Box C 6616, REPRESENTATIVE for London area required by old-established manufacturing ehemists. Must own car and have good knowledge and experience of the trade, Permanent position. Salary, commission and expenses, Write with full particulars to Box C 4994. REPRESENTATIVE REQUIRED for West Country by well-known Perfumery House. Good chemists' connection essential, Box C 4979.

C 4979.

SALES REPRESENTATIVE wanted. Essential established connection chemists and hospitals; drugs, dressings, proprietaries, chemists sundries; car owner, unusual opportunity. Some London territories vacant. Apply to Biorex Laboratories, Ltd., 47-51 Exmouth E.C.1.

C 6629

SMALL BUT PROGRESSIVE ethical pharma-

SMALL BUT PROGRESSIVE ethical pharmaceutical house requires experienced medical representatives for (a) North London; (b) South London. Applicant must have pharmaceutical and/or medical background and should preferably be in the 25-35 age group. Salary and expenses, company car provided. Fullest particulars to Box C 182.

SMITH & HILL (Chemists), Ltd., require a manager for their drug and manufacturing department. The post entails assuming complete charge of a small but well equipped laboratory, control of staff, buying, and the usual statutory returns for D.D.A., etc. This is an interesting post offering considerable scope to a pharmacist with initiative. Please send full details of career to date to the Managing Director, Matilda Street, Shefield, 1.

THE CROOKES LABORATORIES have

Matilda Street, Sheffield, 1. C 1002

THE CROOKES LABORATORIES have a vacancy in their manufacturing department for a pharmaceutical chemist. Some previous experience desirable. The position is pensionable and offers scope for advancement, Apply stating age, experience, salary required, etc., to Production Manager, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. C 6609

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oil. Apply Box C 6642.

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